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## **Appendix G**

# **INTERIM REPORT ON SIGNIFICANT FIRES IN WTC 1, 2, AND 7 PRIOR TO SEPTEMBER 11, 2001**

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Fires occurred in World Trade Center (WTC) 1, 2, and 7 prior to September 11, 2001. This appendix documents the facts of significant fires in the building after first occupancy as they relate to the performance of the automatic sprinkler, manual suppression, fire detection, and smoke purge systems. The ultimate goal of this review was to identify from New York City Fire Department (FDNY) records significant but not well known fires for further study.

### **G.1 BACKGROUND**

The fire protection engineering department of the Port Authority of New York and New Jersey (PANYNJ) maintained records of all significant fire events in the WTC buildings. These records were lost in the collapse of the towers.

Two significant fire events involving WTC 1 are well known. On February 14, 1975, a fire started on the 11th floor of WTC 1. Workers reported the fire to WTC police headquarters. When police reached the fire floor, they reported a serious fire and ordered the heating, ventilating, and air conditioning (HVAC) system be placed into the smoke purge mode. Fire spread through unprotected floor openings in utility closets. Fire damage occurred on floor 10 through floor 19. Approximately 800 m<sup>2</sup> (9,000 ft<sup>2</sup>) of the floor 11 contents were destroyed or damaged. At that time, sprinklers had not been installed in the office spaces. However, fire barriers divided the floor into quadrants. The fire on floor 11 was confined to the southeast quadrant. Fire damage on other floors was confined to the utility closets. The fire was extinguished by FDNY. More details about this fire incident can be found in Powers (1975), Lathrop (1975), and a report that is being prepared for the National Institute of Standards and Technology (NIST) by Hughes Associates.

At 12:18 PM on February 26, 1993, a bomb exploded in an underground parking garage of the WTC complex. The explosion occurred on the B2 level in the area of the garage under WTC 3 and adjacent to WTC 1. The explosion resulted in a loss of normal electric power in WTC 1 and WTC 2. HVAC systems shut down. Smoke spread throughout WTC 1 and to a lesser extent in WTC 2. More details about this fire can be found in Isner and Klein (1993a, 1993b). The only historic record of smaller fire incidents in WTC 1, 2, and 7 known to this investigation are the fire reports and fire investigation reports prepared by the FDNY. These reports were provided to NIST by FDNY for use in this investigation.

### **G.2 FDNY FIRE REPORTS AND FIRE INVESTIGATION REPORTS**

The FDNY released 397 Bureau of Operations Fire Reports and 112 Bureau of Fire Investigation Records (Fire Marshals' Reports) which served as the basis for a summary of the fire history in the WTC 1, 2, and 7. NIST obtained reports of fires for the period of 1970–2001 and fire investigation records between 1977 and 2001 for WTC 1, 2, and 7, which in total, consisted of over 500 documents on which to report.

These records included all responses to fires in buildings 1, 2, and 7 by the FDNY. All of these records consist of standardized forms that may be supplemented with other materials. Many were for minor fire events, such as fires that were extinguished by occupants before FDNY arrival. These were not of interest for this investigation. The records of significant fires were identified.

Significant fire incidents were those that exercised the fire suppression systems, specifically multiple sprinklers or multiple standpipes (with or without the activation of at least one sprinkler). These fires will be discussed individually, organized by the building in which they occurred. In addition to these fires, generalized facts relating to those fires involving the use of one standpipe line and one sprinkler and the use of one standpipe line will be provided throughout this report. As an aside, the majority of fire records for significant fires documented the performance of the detectors and sprinkler systems, but almost all reports lacked information about the performance of the smoke purge system.

### **G.2.1 Fire Record Forms**

Depending upon the type and date of the incident, a specific fire report form was used by the FDNY to document the incident. For each type of emergency responded to by the FDNY, responders either completed a form that would describe a structural fire (BF-24) or a form that would describe any other type of emergency (BF-25), such as a nonstructural fire, transportation fire, and/or any other non-fire emergency. For this historical summary, only those events logged and organized under the structural fire form, 345 documents total, were of interest and used. A structural fire form is a one-page document (unless additional information is recorded on separate sheets) that gives valuable information about the fire event on various subjects, including:

- Alarm—the date and time of the received alarm
- Injuries and casualties—the numbers of each for the incident
- Extinguishment—details of the sprinkler and standpipe performance
- Ignition—information on the equipment involved in ignition, the form of the ignition source, the material type and form that was ignited, and the ignition factor (cause)
- Structure—information on the class of construction, the use of the building, and its status (vacant, occupied, under construction, etc.)
- Fire origin—the fire location and classification
- Fire extension—the means of fire extension and number of buildings/vehicles involved
- Damage—information on the damage done by flame, smoke, and water
- Detectors—the type, power source and performance of the detectors in the fire area

Each subject of the incident is given a set of codes or numbers that correspond to any incident, and in order to read the fire records successfully, an understanding of the codes is necessary (see

Attachments G-A.1, G-A.2 and G-A.3). For the nonstructural B-25 record forms, the only fire related subjects included are the injury and casualty numbers, ignition, and structure information.

Depending upon the date of the fire incident, certain information is lacking from the structural fire form. Before 1980, a different record form for structural fire incidents was used which left out the following subjects: fire extension, damage, detectors, and portions of the ignition data. Because of this, detection data are not available for the majority of the fires occurring before 1980.

## G.2.2 Overview of Fire Incidents 1970–2001 from FDNY Records

Table G–1 contains the categorization of all structural fire incidents contained in the FDNY records for WTC buildings 1, 2, and 7 available to this investigation. The table contains information on the category of fire incident (whether or not the detection and/or sprinkler systems activated), the time period over which the fires occurred, the numbers of records in that category, and a descriptive statement about the category.

**Table G–1. Categorization of WTC 1, 2, and 7 fires from FDNY records.**

<i>WTC 1</i>			
Category	Dates	Number	Generalization of Incidents
No detection, no sprinkler	1980–2001	66	Unattended food/appliances, overheated elevator equipment, discarded material, welding operations, electrical failure and suspicious fires
No detection information and no sprinklers	1970–1979	79	Trash can fires, discarded material, food on stove, electrical failure, overheated equipment
Detection, no sprinklers	1980–2000	57	Unattended food/appliances, overheated elevator equipment, discarded material, welding operations, electrical failure
[Detection] and sprinklers	1977–1999	18	Suspicious, electrical failure, discarded material
<i>WTC 2</i>			
Category	Dates	Number	Generalization of Incidents
No detection, no sprinkler	1980–1999	37	Discarded material, welding too close, overheated equipment, suspicious, elevator motor
No detection information and no sprinklers	1975–1979	40	Discarded material, fire in office furniture, trash can fires
Detection, no sprinklers	1981–1999	40	Food on stove, small elevator fire, electrical failure, suspicious, overheated equipment
[Detection] and sprinklers	1977–2000	5	Mechanical failure, suspicious
<i>WTC 7</i>			
Category	Dates	Number	Generalization of Incidents
No detection, no sprinkler	2000	1	Trash can fire/discarded material
Detection, no sprinklers	1990	1	Electrical switch on floor – explosion
[Detection] and sprinklers	1988	1	Suspicious

All FDNY records provided to NIST, unless the records were not readable, contained relevant information about the type and performance of the suppression system. Because of this, reports of incidents in which the sprinkler system activated can range from 1970 to 2001. When the table lists “[detection]” in brackets, this is meant to symbolize that either detection was present or no information on detector performance was included on the form (as is the case with the older records). An attempt was made to compare all investigation records with the fire reports, especially those which activated the suppression system. Looking at the records in Table G–1, it is clear that only 24 fires activated the sprinkler system from 1970–2001 from all three buildings. Many of the other structural fires without sprinkler activation were labeled as suspicious, trash can fires, electrical failures, unattended food/appliances, or overheated equipment.

In order to report on significant structural fires occurring in WTC 1, 2, and 7, the FDNY records had to be reviewed for those incidents that activated sprinklers, detectors, or were extinguished by hose line and those smaller fires that self-extinguished or could be extinguished using a fire extinguisher. The structural fire incidents without detection information (before 1980), had to be reviewed to locate any fires that activated the sprinkler system.

The retrofit installation of sprinklers into WTC buildings 1 and 2 was accomplished in two phases. During the first phase in 1976, sprinkler risers/mains were installed throughout WTC 1 and WTC 2. Sprinklers were installed to protect corridors, storage rooms, lobbies, and certain tenant/PANYNJ spaces. In the second phase of the retrofit from 1983 to 2001, sprinklers were installed in all remaining places in the complex (PACO 2002; shown in Attachment G–B). Prior to the retrofit only the sub-grade areas and selected hazard areas were protected by automatic sprinklers. This retrofit proceeded throughout the buildings as much as practical when other renovations of the office spaces were underway, such as when change of tenants occurred.

After the installation of the sprinkler risers in 1976, tenants had the option of providing sprinklers or compartmentation for fire protection in compliance with Local Law 5. It was therefore possible that during the period of time when retrofit installation of sprinklers was under way, a fire that occurred may or may not have been in an area protected by automatic sprinklers.

The forms used by the FDNY after 1987 give a detailed description of the event and whether or not a system was present at the time of the fire; however, a fire recorded before 1987 will give data only on the number of sprinklers opened. Because of this, an effort was made to look through all reports, especially those that mentioned detection performance, in order to identify fires involving the use of standpipe lines by the FDNY as an alternate indication of a significant fire.

The next section of the report will highlight significant fires occurring in WTC 1, 2, and 7. The significant fires will be described individually by WTC building, and organized by the date on which they occurred in the building. In addition to these significant fires, (1) the fires that activated one sprinkler head and involved the use of one standpipe and (2) the fires that involved the use of only one standpipe, due to the number of incidents, will be generalized as to the nature of the incidents and the procedures followed by the FDNY.

### G.2.3 Fire Incidents Occurring in WTC 1

After reviewing all the FDNY records of fire incidents in WTC building 1 since 1970, the significant fires were selected. There were 12 significant fires found for WTC 1, and the fire reports are included in Attachment G–A.4. Table G–2 provides a summary of the fire incident information from FDNY records, which is followed by individual paragraphs about each incident.

**Table G–2. Significant fires in WTC 1 extinguished by sprinklers and/or multiple standpipe lines.**

Significant Fire	Incident Date	Fire Location	# Sprinklers Activated	# Standpipes Used	Cause of Fire	Material Ignited
1	9/9/77	B-6 level storage room	2	0	None listed	Not listed
2	9/23/77	Dumpster on B-4 level	2	0	Not classified	Trash/waste
3	10/16/81	19th floor office area	-	2	Discarded material	Furniture
4	12/23/83	2 dumpsters on B-4 level	2	1	Suspicious	Trash/waste
5	1/27/85	Office space on mezzanine level (Floor 2)	2	1	Incendiary	Trash/waste
6	9/10/85	Garbage dumpster in service elevator lobby on floor 43	2	1	Suspicious	Trash/waste
7	11/1/85	Storage closet on B-4 level	3	1	Suspicious	Supplies/stock
8	6/7/86	Dumpster fire on floor 106, compactor room on floor 107	2	1	None listed	Trash/waste
9	9/30/91	Office on B-4 level	≥1	2	Discarded material	Trash/waste
10	11/19/91	Electrical closet on floor 93	0	2	Short circuit	Electrical wire or cable insulation
11	7/23/92	Level B-5 at the power distribution panel	0	2	Electrical failure	Electrical wire or cable insulation
12	11/10/99	Computer room on floor 104	3	≥1	None listed	Plastics, electronic equip

**Key:** ≥ symbol denotes that at least one of the units of the suppression system was used (and not specifically identified by the fire report); - indicates that the report acknowledges 0 sprinklers open; however, due to the date of the fire, the space may not have had a sprinkler system installed.

#### Significant Fire #1

On September 9, 1977, at 11:04 p.m., the FDNY received an alarm for a fire in the B-6 level storage room at the address of WTC 1. The fire activated two sprinklers, and was noted to be extinguished before the FDNY's arrival.

#### Significant Fire #2

Another fire occurred on September 23, 1977, at 11:48 p.m., in a dumpster on the B-4 level of WTC 1. This fire also activated two sprinklers, and the FDNY noted that the fire had been extinguished prior to their arrival.

In both cases, no injuries or casualties resulted from these fires, and the damage was confined to the area of origin.

#### Significant Fire #3

Six years later, on October 16, 1981, at 7:12 p.m., a fire occurred on floor 19 of WTC 1. The FDNY noted that they used two standpipe lines to extinguish the fire and that one person was evacuated from the scene. Again, the fire report notes that no sprinklers opened, but does not note whether or not sprinklers were present at the time of the fire. Given the date of the incident, sprinklers are not expected to be located on floor 19. The fire was caused by discarded material and involved furniture in an office area of the floor.

#### Significant Fire #4

Six years later on December 23, 1983, at 2:50 a.m., the FDNY responded to an alarm of fire and heavy smoke conditions on the B-4 level of WTC 1. The FDNY found two dumpsters fully involved in separate locations on the same floor and noted that the two activated sprinklers extinguished a major portion of the fire. The FDNY extinguished the rest of the flames by stretching hose from the standpipe system. Again, no injuries or casualties resulted from this fire. The cause noted on the report was suspicious and the damage was confined to the origin of the fire.

#### Significant Fire #5

On January 27, 1985, at 8:53 p.m., the FDNY was called for a fire located in an unoccupied office on the mezzanine level of WTC 1. Two sprinklers contained the incendiary (involving arson) fire consuming trash paper/waste. When the FDNY arrived, they extinguished the remaining fire with one standpipe line. Building and content damage was confined to less than 15 percent of the space. Also, no injuries or casualties were reported.

#### Significant Fire #6

Eight months later on September 10, 1985, at 4:05 p.m., the Port Authority Police informed the FDNY on arrival of a sprinkler flow and smoke condition on floor 43. A medium smoke condition was report by the FDNY on floor 43, where a fire was extinguished by two sprinklers. The fire report notes the use of one standpipe line; however, this was used during the overhaul process. This fire originated suspiciously

in a garbage dumpster in a service elevator lobby. There was no building or content damage as well as no injuries or casualties reported.

#### Significant Fire #7

On November 1, 1985, at 4:05 a.m., the FDNY was called for another suspicious fire producing heavy smoke on the B-4 level under WTC 1 and WTC 2. This fire occurred in a storage closet of the men's bathroom, and the FDNY noted that three sprinklers activated to keep the fire under control until their arrival. Upon arrival, the FDNY extinguished the remaining fire in the closet area with one standpipe line. Again, the damage was noted to be confined to the area of origin.

#### Significant Fire #8

Less than a year later, on June 7, 1986, at 9:49 a.m., the FDNY received an alarm for a heavy smoke condition on floor 110. For this call, fires were burning in two separate places; a garbage dumpster on floor 106 and the compactor room on floor 107. Sprinklers were noted in operation in both locations and seemed to control the fires, until the FDNY could complete extinguishment with one standpipe line on floor 106. There was no report of injuries or casualties for the previous two fires.

#### Significant Fire #9

An additional fire occurred in WTC 1 where multiple standpipe lines were used along with the activation of the sprinkler system. This fire occurred on September 30, 1991, at 6:32 p.m., in an office on the B4 level. The fire report noted that the sprinkler system operated; however, there is no mention of how many sprinklers or even their activation in the Operations/Comments section of the report. Two 1 3/4 in. or larger hose lines were used by the FDNY to extinguish this fire. The cause of the fire was abandoned material (cigarette) igniting boxes/carton material in an office. The fire damage was confined to the area of origin and smoke damage was confined to the floor. There was one uniformed officer injured and no civilian injuries or casualties.

#### Significant Fire #10

A fire occurred on November 19, 1991, at 6:27 pm., and two 2 1/2 in. standpipe hose lines were used by the FDNY. The FDNY responded to WTC 1 for this fire due to a report of fire and smoke condition in electrical closets on possibly four floors (floors 93–96) and an alarm transmitted from floors 93–98. According to the fire report, the sprinklers were in service, but did not operate for this fire. The noted cause of this fire was a short circuit and the material that was ignited was electrical wire or cable insulation. The fire and smoke damage was confined to its area of origin (electrical closet). Two occupants were removed from stalled elevators during this incident, and occupants were evacuated from the scene, although an exact number is not given. Also, two occupants were injured and required first aid.

#### Significant Fire #11

The FDNY responded to WTC 1 on July 23, 1992, at 10:02 p.m., due to a transformer fire on the 5th sub basement level. Firefighters found a fire situation in a large power distribution panel, where a firefighter was knocked unconscious by a shock blast from the panel. Similar to the fire in November of 1991, two 2-1/2 in. standpipe hose lines were used by the FDNY on this fire. The cause of the fire was an electrical

failure and the material ignited was electrical wire or cable insulation. No appreciable damage is noted. As mentioned earlier, one firefighter was injured as well as three civilians.

#### Significant Fire #12

The final fire associated with WTC 1 was one that occurred on November 10, 1999, at 11:01 p.m., in a computer room on floor 104. The FDNY noted that the fire was “knocked down” by three sprinklers when they arrived and they completed extinguishment with a line extended from the standpipe. The flame damage was confined to the area of origin and computer equipment was involved in fueling the fire. There was one injury and no casualties reported in the FDNY record for this fire.

Table G–2 presents the 12 significant fires in WTC 1. Five of the 12 fires occurred on the basement levels and two occurred on the upper levels (above floor 100). The causes of these significant fires include suspicious, discarded materials, and electrical failures.

### **G.2.4 Fire Incidents Occurring in WTC 2**

Table G–3 presents the significant fire occurring in WTC 2. There were three significant fires found for WTC 2, and the fire reports are included in Attachment G–A.5. Table G–3 provides a summary of the fire incident information from FDNY records, which is followed by individual paragraphs about each incident.

**Table G–3. Significant fires in WTC 2 extinguished by sprinklers and/or multiple standpipe lines.**

Significant Fire	Incident Date	Fire Location	# Sprinklers Activated	# Standpipes Used	Cause of Fire	Material Ignited
1	5/19/75	Floor 32	-	3	Incendiary	Trash/waste
2	4/12/77	Duct work over grill in restaurant on floor 107	2	0	None listed	Duct work
3	3/22/93	Fan motor room on floor 108	2	0	Mechanical failure	Not classified

- Indicates that the report acknowledges 0 sprinklers open, however due the date of the fire, the space may not have had a sprinkler system installed.

#### Significant Fire #1

A fire occurred on May 19, 1975, at 9:38 p.m., on floor 32 of WTC 2. The FDNY noted that they used three standpipe lines to extinguish the fire and that the Port Authority reported occupants trapped on floors 31 and 32. The fire report notes that no sprinklers opened, but does not note whether or not sprinklers were present at the time of the fire. Given the date of the incident, sprinklers are not expected to be located on floors 31 and 32. The fire was labeled as incendiary and involved trash/waste. The FDNY stated that the fire involved the core area of the floor and was confined to that area. Over 20 people (civilians and uniformed personnel) were injured by this incident.



### Significant Fire #2

On April 4, 1977, at 1:15 p.m., the FDNY was called to WTC 2 for a fire in the duct work over the grills in a restaurant on floor 107. The FDNY record on this fire noted that the fire was extinguished prior to its arrival. The damage was confined to the area of origin, and the fire caused no injuries or casualties.

### Significant Fire #3

The second fire occurred on March 22, 1993, at 8:39 a.m., and caused a smoke condition on floor 108. The fire activated two sprinklers due to an overheated bearing in a fan motor room on floor 108. The damage to the area did not exceed 15 percent of the space, and there were no injuries or casualties reported.

Table G-3 presents the three significant fires in WTC 2. No fires were discovered in WTC 2 where multiple sprinklers or standpipes were used with another suppression system. Two of the three fires occurred on the upper levels (above floor 100) and the other occurred on floor 32. The causes of these significant fires included incendiary and mechanical failures.

## **G.2.5 Additional Fires Involving the Deployment of Standpipe Lines in WTC 1 and 2**

The fires described in this section (31 in total) involve the use of one standpipe, with and without the activation of one sprinkler for WTC 1 and WTC 2. Four of the 31 reports describe fires that were extinguished with one sprinkler and one standpipe line (see Attachment G-A.6.1). Three of these fires were located in WTC 1 between the years of 1986–1991 and the other in WTC 2 in 1981. Two of these fires occurred in basement levels, one occurred on floor 106 of WTC 1, and the last on floor 5 in WTC 1. In some of the fire reports, the FDNY noted that the sprinkler controlled the fire, and the standpipe was used to actually extinguish the remaining fire. Half of the fires were labeled as incendiary/suspicious, one was an electrical failure, and the last was unknown.

In addition, 27 of the 31 fire reports describe fires that were extinguished using one standpipe line (see Attachment G-A.6.2). Twenty of these fires occurred in WTC 1 and the other seven occurred in WTC 2. A majority of these fires (19) are labeled as incendiary/suspicious or unknown, while the other causes of the fires are attributed to short circuits, abandoned material/cigarette, welding close to combustibles, and a mechanical failure. The dates of occurrence for these fires range from 1973–1999, with a majority (23) occurring between the years of 1973–1985. These fire incidents did not result in any casualties, but five civilians and one uniformed officer were injured.

Two of the 27 fires involved a 300 person (April 19, 1980) and a 1,500 person (April 17, 1981) evacuation. These will be described in further detail. On April 19, 1980, at 2:06 p.m., the FDNY received reports of an activated smoke detector in the return air duct on floor 106 of WTC 1. The FDNY also received reports of heavy smoke on floor 106, light smoke on floor 109, and heavy odor of smoke in stairways A and B. The report notes that while only one standpipe was used, approximately 300 people were evacuated from the Windows on the World restaurant on floor 107 via stairway C (which was clear of smoke). The fire cause was labeled as abandoned or discarded material and involved plastic material. This fire did not cause any injuries or casualties.

On April 17, 1981, at 9:18 a.m., the FDNY was informed of a fire on floor 7 and a smoke condition on floors 7 through 11 of WTC 1. The FDNY hooked up one standpipe and extinguished the fire located in an air conditioning unit in the “MER” room on floor 7. The cause of this fire was labeled as a mechanical failure. The fire report notes that the Port Authority personnel reported an evacuation of approximately 1,500 people from floors 9 through 23. However, no injuries or casualties were reported from this fire.

### G.2.6 Fire Incidents Occurring in WTC 7.

Table G–4 presents the significant fire occurring in WTC 7. There was one significant fire found for WTC 7, and the fire report is included in attachment G–A.7. Table 4 provides a summary of the fire incident information from FDNY records, which is followed by an individual paragraph on the incident.

**Table G–4. Significant fires in WTC 7 extinguished by sprinklers and/or multiple standpipe lines.**

Significant Fire	Incident Date	Fire Location	# Sprinklers Activated	# Standpipes Used	Cause of Fire	Material Ignited
1	5/20/88	Construction shanties on floor 3	Multiple, # not listed	1	Suspicious	Shanties

#### Significant Fire #1

In WTC 7, a fire occurred on May 20, 1988, at 12:38 a.m., in the construction shanties on floor 3. Although the fire report does not specifically note the number of sprinklers that activated, the operations notes state that Ladder Truck 10 found the sprinklers (noting more than one) in operation and shut them down. The FDNY had to complete the extinguishment by stretching a line from the standpipe to the fire source. This fire is noted by the report as being suspicious in nature and the flame damage was confined to the area of origin.

It is possible that the fire incidents that were not specifically highlighted, especially those in the areas without sprinklers, involved other methods of extinguishment before FDNY arrival, such as a WTC houseline (pre-connected standpipe hose), hand extinguisher, or bucket of water, as noted on some of the FDNY reports. All other fires, the majority, included in other categories were either self-extinguished, extinguished prior to FDNY arrival (by staff, etc.), or a hand extinguisher was used by the FDNY.

## G.3 SUMMARY

In summary, 16 significant fires occurred in WTC 1, 2, and 7, with 12 occurring in WTC 1, three in WTC 2, and one in WTC 7. In addition to these, 31 fires occurred in WTC 1 and WTC 2, which involved the use of one standpipe (with or without the activation of one sprinkler). Of these additional 31 fires, 23 occurred in WTC 1 and eight occurred in WTC 2. The following paragraphs will summarize findings from the 16 significant fires that occurred in all three buildings.

After reviewing the 16 significant fires, trends developed relating to the time of day that the fires occurred. Overall, 12 of the 16 fires occurred between the hours of 6 p.m. and 4 a.m. The fires that occurred during office hours (between 7 a.m. and 6 p.m.) included a dumpster fire in the floor 43 elevator lobby (WTC 1), a dumpster fire on floor 106 (WTC 1), a kitchen fire on floor 107 (WTC 2), and a bearing overheating in the fan motor room on floor 108 (WTC 2). Almost all of the incendiary (arson) and

suspicious fires (5 out of 6 fires) and unclassified or unlisted fires (4 out of 5 fires) occurred after business hours (before 7 a.m. and after 6 p.m.).

In addition to the time of day of the fire, trends in the cause of the fire and the materials involved in the fire can be highlighted. Of the 16 fires and their causes, five were labeled as unlisted or unclassified, six as suspicious or incendiary, two as discarded material, and three as an electrical failure or mechanical failure. For the material involved in the fire, eight reports noted trash, waste, and supplies; two reported not listed or not classified; one reported furniture; three reported electrical equipment; one reported duct work; and one reported shanties were the material involved in the fire.

Lastly, the location of the fires throughout the buildings was of interest. Of the 16 fires, four fires were concentrated above floor 100 or and six fires were located in the basement. The others (6 fires) were spread throughout the rest of the building.

## **G.4 ATTACHMENTS TO THIS FIRE HISTORY**

Attachments G–A.1 through G–A.7 are included as a supplement to this report. The first three sections, G–A.1 through G–A.3 are explanations of the numeric codes used in the fire reports by the FDNY. Attachment G–A.1 is included to explain the codes for the fire reports produced prior to and including 1980, Attachment G–A.2 is included to explain the fire reports produced from 1981 to May 31, 1987, and Attachment G–A.3 is included to explain the fire reports produced from June 1, 1987, to the present. The report code explanations are divided into the same sections as the fire report and give short descriptions for the numbers used in the fire report under each section. For example, if the ignition factor for a fire occurring in 1990 was given a number code of 54, the reader can find that the cause of the fire was a “short circuit, ground fault.”

Attachments G–A.4 through G–A.7 include the actual fire reports produced by the FDNY on the significant fires highlighted in the sections above. The reader can use Attachments G–A.1 through G–A.3 (depending upon the date of the fire) to read the fire reports in more detail than what is provided in this fire history report.

## **G.5 CONCLUSIONS**

From the information contained in FDNY fire reports and fire investigation records provided to NIST, 47 fires occurred in WTC building 1, 2, and 7 that were of sufficient size and duration to activate multiple sprinklers or were estimated by NIST to be capable of doing so, over the time period the buildings were occupied. This total does not include the major 1975 office fire in WTC 1 or the 1993 bombing.

The records indicate that in areas protected by automatic sprinklers, no fire activated more than 3 sprinklers. Three sprinklers would provide coverage for a floor area of approximately 63 m<sup>2</sup> (675 ft<sup>2</sup>). This area is much smaller than the 800 m<sup>2</sup> (9,000 ft<sup>2</sup>) damaged by the 1975 fire in an office space unprotected with automatic sprinklers.

Many of the fires that occurred were recorded as suspicious or unknown in cause, occurred during off-peak work hours, and involved materials such as trash or paper-based supplies. In cases where sprinklers

were activated, the FDNY records indicated that the sprinklers either extinguished the fire completely or aided in controlling the spread.

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## **Attachment G-A.1**

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### **Explanation of Numeric Codes Used on Fire and Emergency Reports - Prior to 1980**

CLASSIFICATION OF BUILDING  
BY USECOMMERCIAL

01	Bank
02	Brewery
03	Coal Pocket
04	Department Store
05	Electric Power Plant
06	Factory: Multi occupancy
07	Factory: Single Occupancy
08	Foundry
09	Freight Depot
10	Garage: Non-Storage
11	" " Storage
12	Gas Works
13	Lumber Yard
14	Motor Vehicle Repair Shop
15	Office Building
16	Oil Selling Station
17	Oil Storage Plant
18	Pier, Wharve, Dock, Bulkhead Building
19	Restaurant, Diner
20	Shed, Newsstand, Shanty
21	Shipyards, Drydock
22	Stable
23	Steam Generating plant
24	Store Building, Taxpayer
25	Warehouse, Storehouse
26	Store Building & Private Dwelling
39	Other Commercial

PUBLIC

40	Airport Building
41	Aryium
42	Bridge
43	Bus Terminal
44	Church, Synagogue
45	Dance Hall, Banquet Hall
46	Dispensary, Clinic
47	Ferry Terminal
	Government Building (Not otherwise classified);
48	City
49	Intersate
50	Federal
51	Foreign
52	State
53	Hospital, Infirmary
54	Nursing Home
55	Railroad Station
56	School; College, University
57	" Private High
58	" Public High
59	" Public Junior High
60	" Private Elementary
61	School: Public Elementary
62	" Children's Nursery
63	" Other
64	Television Studio
65	Theatre, Legitimate
66	Theatre, Motion Picture
67	Transit System - Station Structure
68	Tunnel
69	Other Public

RESIDENTIAL

80	Apartment Hotel "A"
81	Apartment House "A"
82	Boarding House, Rooming House "B"
83	Convent, Rectory, Monastery, etc.
84	Dormitory-School Club, Lodge
85	Hotel "B"
86	Lodging House "B"
87	Motel
88	Pvt. Dwelling: 1 Family
89	" Two Family
90	Tenement: New Law "A"
91	" Old Law "A"
92	Converted Dwelling "A"
99	Other Residential

BUILDING STATUS

1	Occupied
2	Partly Occupied, Good Condition
3	Partly Occupied, Deteriorating
4	Vacant
5	Under Demolition
6	Under Construction

DAMAGE (to Building or Contents)

0	None-No Appreciable
1	Light 0-15%
2	Medium 16%-49%
3	Heavy 50% & Greater

AREA FIRE ORIGIN -FLOOR

00	Outside Building
01	1st Floor
to	
94	94th and Higher
95	Attic
96	Roof
97	Basement
98	Cellar
99	Sub-cellar

AREA FIRE ORIGIN-ROOM OR AREA

10	Area Not in Building
11	Attic
12	Awning
13	Balcony
14	Basement
15	Bathroom Toilet
16	Bedroom, Sleeping Area
17	Ceiling
18	Cellar
19	Chimney
20	Classroom Lecture Area
21	Closet
22	Cockloft
23	Court-Exterior
24	Court-Interior
25	Dining Room, Dining Area
26	Duct-Air Conditioning
27	Duct-Exhaust
28	Flooring
29	Furnace Room
30	Hallway-Private
31	Hallway-Public
32	Incinerator Cl set or Room
33	Kitchen, Cooking Area

34	Living Room
35	Lobby
36	Machinery Room
37	Office Area
38	Operating Laboratory Area
39	Partition
40	Porch
41	Projection Booth
42	Recreation Area
43	Roof
44	Sales Showroom Display Area
45	Shaft-Duct, Pipe
46	Shaft-Dumbwaiter
47	Shaft-Elevator
48	Shaft-Exterior Light
49	Shaft-Interior Light
50	Shaft-Vent
51	Shipping Receiving Loading Area
52	Stage
53	Stairway
54	Storage Room Area
55	Vacant-Room, Apartment or area
56	Work Area Workroom
57	Other Areas, Not Classified (State area)

AREA FIRE ORIGIN-OCCUPANCY CLASSIFICATIONCOMMERCIAL

00	Factory: Chemicals
	Clothing:
01	Dresses
02	Undergarment
03	Other (State Type)
04	Dry Cleaning Laundry
05	Electrical Products
06	Food & Drink Products
07	Furniture
08	Furs, Fur Goods
	Hats:
09	Men's
10	Women's
11	Leather, Leather Products
12	Machine Shop Metal works
13	Paints
14	Paper Products
15	Petroleum Products
16	Plastics, Rubber
17	Printing & Allied Industries
18	Shoes
19	Textiles
20	Toy or Doll
21	Woodworking
22	Other Factories not classified (state type)
	Store:
23	Auto Accessories
24	Bakery
25	Butcher
26	Candy, Cigar, Stationery
27	Clothing
28	Department, large
29	Department, small (5x10)
30	Dry Cleaner & Tailor
31	Drug
32	Electrical Appliances
33	Fruit & Vegetables
34	Furniture
35	Grocery, Dairy, Delicatessen
36	Haberdashery
37	Ladies Accessories
38	Laundry
39	Paint Hardware

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## **Attachment G-A.2**

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**Explanation of Numeric Codes Used on Fire and Emergency Reports -  
From 1981 to May 31, 1987**

**Type of Report**

- 1 Structural.
- 2 Transportation Fire.
- 3 Non-Structural Fire.
- 4 Emergency Response.
- 5 False Alarm.
- 6 Additional data (for SF 24A).

**How Reported**

- 1 Street Box Manual.
- 2 Telephone.
- 3 Verbal.
- 4 Class 3—Manual, PFA.
- 5 Class 3—Value, PFA.
- 6 Class 3—Other Automatic, PFA.
- 7 Class 3—ERS.
- 8 Street Box—ERS.
- 9 Class 3—Manual, FONY.
- 10 Pre-recorded Alarm.

**Initial Alarm**

- 0 Special Call Other Than Engine Only—No Chief.
- 1 Box (Street or Class 3).
- 5 Special Call Engine Only—No Chief.
- 8 Special Call (Chief Operated).
- 9 Still.

**Highest Alarm**

- 0 Initial Alarm.
- 1 More than the Initial Alarm & less than 3 Engines & 2 Ladder Co. at work.
- 2 2nd Alarm.
- 3 3rd Alarm.
- 4 4th Alarm.
- 5 5th Alarm.
- 6 Simultaneous.
- 7 Signal 7-5.

**How Extinguished**

- 0 Before Arrival.
- 1 Hand Extinguishers.
- 2 Sprinkler Heads (State Number).
- 3 Booster Stream.
- 4 Low Pressure Hydrant Stream.
- 5 One-1½" or larger hose line from a pumping unit or a standpipe outlet, regardless of line termination (Controlling Nozzle, Backsiphon, Staged Multi Vessel, Ladder Pipe, T/L, Foam Nozzle, etc.).
- 6 Two-1½" or larger hose lines as above.
- 7 Three-1½" or larger hose lines as above.
- 8 Four or more 1½" or larger hose lines as above.
- 9 Other (State How).

**Ignition Stage—Termination Stage**

- 2 Smolder Stage, before any flame.
- 3 Flame Stage.
- 0 Undetermined or not reported.

**EQUIPMENT INVOLVED IN IGNITION****Heating Systems**

- 11 Central heating unit.
- 12 Water heater.
- 13 Fixed, stationary local heating unit.
- 14 Indoor fireplace.
- 15 Portable local heating unit.
- 16 Chimney, gas vent flue.
- 17 Chimney connector, vent connector.
- 18 Heat transfer system.
- 19 Heating systems not classified above.
- 10 Heating system, undetermined.

**Cooking Equipment**

- 21 Fixed, stationary surface unit.
- 22 Fixed, stationary oven.
- 23 Fixed, stationary food warming appliance.
- 24 Deep fat fryer.
- 25 Portable cooking, warming unit.
- 26 Open fire pit.
- 27 Grease hood, duct.
- 29 Cooking equipment not classified above.
- 20 Cooking equipment, undetermined.

**Air Conditioning, Refrigeration Equipment**

- 31 Central air conditioning, refrigeration equipment.
- 32 Water cooling device, tower.
- 33 Fixed, stationary local refrigerator unit.
- 34 Fixed, stationary local air conditioning unit.
- 35 Portable air conditioning, refrigeration unit.
- 39 Air conditioning, refrigeration equipment not classified above.
- 30 Air conditioning, refrigeration equipment, undetermined.

**Electrical Distribution Equipment**

- 41 Fixed wiring.
- 42 Transformer, associated overcurrent or disconnect equipment.
- 43 Meter, meter box.
- 44 Power switch gear, overcurrent protection devices.
- 45 Switch, receptacle, outlet.
- 46 Lighting fixture, lampholder, ballast, sign.
- 47 Cord, plug.
- 48 Lamp, light bulb.
- 49 Electrical distribution equipment, not classified above.
- 40 Electrical distribution equipment, undetermined.

**Appliances, Equipment**

- 51 Television, radio, phonograph.
- 52 Dryer.
- 53 Washing machine.
- 54 Floor care equipment.
- 55 Separate motor, generator.
- 56 Hand tools.
- 57 Portable appliance designed to produce controlled heat.
- 58 Portable appliances designed not to produce heat.
- 59 Appliances, equipment not classified in 51 through 58.
- 50 Appliances, equipment, undetermined.

**Special Equipment**

- 61 Electronic equipment.
- 62 Vending machine, drinking fountain.
- 63 Office machine.
- 64 Biomedical equipment device.
- 65 Separate pump, compressor.
- 66 Combustion engine.
- 67 Conveyor.
- 68 Printing press.
- 69 Special equipment, not classified above.
- 60 Special equipment, undetermined.

**Processing equipment**

- 71 Furnace, oven, kiln.
- 72 Casting, molding, forging equipment.
- 73 Heat treating equipment.
- 74 Working, shaping machine.
- 75 Coating machine.
- 76 Painting equipment.
- 77 Chemical process equipment.
- 78 Waste recovery equipment.
- 79 Processing equipment, not classified above.
- 70 Processing equipment, undetermined.

**Service, Maintenance Equipment**

- 81 Incinerator.
- 82 Boring, brake.
- 83 Rectifier, charger.
- 84 Tarpot, tar kettle.
- 85 Arc, oil lamp.
- 86 Elevator.
- 87 Torches.
- 89 Service, maintenance equipment, not classified above.
- 80 Service, maintenance equipment, undetermined.

**Other Object, Exposure Fire**

- 91 Separate, removed exposure.
- 92 Separate, detached exposure.
- 93 Separate, adjoining exposure.
- 94 Attached, protected exposure.

**55 Attached, unprotected exposure.**

- 96 Vehicle.
- 98 No equipment involved—
- 99 Other object, exposure fire not classified above.
- 90 Other object, exposure fire.
- 00 Equipment involved in ignition undetermined or not reported.

**FORM OF HEAT OF IGNITION****Heat from Fuel-Fired, Fuel-Powered Object**

- 11 Spark, ember, flame escaping from gas fueled equipment.
- 12 Heat from gas fueled equipment.
- 13 Spark, ember, flame escaping from liquid fueled equipment.
- 14 Heat from liquid fueled equipment.
- 15 Spark, ember, flame escaping from solid fueled equipment.
- 16 Heat from solid fueled equipment.
- 17 Spark, ember, flame escaping from equipment: fuel not known.
- 18 Heat from equipment; fuel not known.
- 19 Heat from fuel-fired, fuel-powered object, not classified above.
- 10 Heat from fuel-fired, fuel-powered object, undetermined.

**Heat from Electrical Equipment Arcing, Overloaded**

- 21 Water caused short circuit arc.
- 22 Short circuit arc from mechanical damage.
- 23 Short circuit arc from defective, worn insulation.
- 24 Unspecified short circuit arc.
- 25 Arc from faulty contact, loose connection, broken conductor.
- 26 Arc, spark from operating equipment or switch.
- 27 Heat from overloaded equipment.
- 28 Fluorescent light ballast.
- 29 Heat from electrical equipment arcing overloaded, not classified above.
- 20 Heat from electrical equipment arcing, overloaded undetermined.

**Heat from Smoking Material**

- 31 Cigarette.
- 32 Cigar.
- 33 Pipe.
- 39 Heat from smoking material, not classified above.
- 30 Heat from smoking material, undetermined.

**Heat from Open Flame, Spark**

- 41 Cutting torch operation.
- 42 Welding torch operation.
- 43 Torch operation, other than cutting and welding.
- 44 Candle, taper.
- 45 Match.
- 46 Lighter.
- 47 Open fire.
- 48 Backfire from internal combustion engine.
- 49 Heat from open flame, spark, not classified above.
- 40 Heat from open flame, spark, undetermined.

**Heat from Hot Object**

- 51 Heat, spark from friction.
- 52 Molten, hot material.
- 53 Hot ember, ash.
- 54 Electric lamp.
- 55 Rekindle, reignition.
- 56 Heat from properly operating electrical equipment.
- 57 Heat from improperly operating electrical equipment.
- 59 Heat from hot object, not classified above.
- 50 Heat from hot object, undetermined.

**Heat from Explosive, Fireworks**

- 61 Explosive.
- 62 Blasting agent.
- 63 Fireworks.
- 64 Paper cap, party popper.
- 65 Model rocket, not amateur rocketry.
- 66 Incendiary device.
- 69 Heat from explosive, fireworks, not classified above.
- 60 Heat from explosive, fireworks, undetermined.

**Heat from Natural Source**

- 71 Sun's heat.
- 72 Spontaneous ignition chemical reaction.
- 73 Lightning discharge.
- 74 Static discharge.
- 79 Heat from natural source, not classified above.
- 70 Heat from natural source, undetermined.

**Heat Spreading from Another Hostile Fire (Exposure)**

- 81 Heat from direct flame, convection currents.
- 82 Radiated heat.
- 83 Heat from flying brand, ember, spark.
- 84 Conducted heat.
- 89 Heat spreading from another hostile fire, not classified above.
- 80 Heat spreading from another hostile fire, undetermined.

**Other Form of Heat of Ignition**

- 87 Multiple forms of heat of ignition.
- 88 Other form of heat of ignition.
- 00 Form of heat of ignition undetermined.

**TYPE OF MATERIAL IGNITED****Gas**

- 11 Natural gas.
- 12 LP city gas (LP and air mix).
- 13 Manufactured gas.
- 14 LP gas.
- 15 Anesthetic gas.
- 16 Acetylene.
- 17 Specialty gas other than anesthetic.
- 18 Gas not classified above.
- 10 Gas.

**Flammable, Combustible Liquid**

- 21 Class IA flammable liquid.
- 22 Class IB flammable liquid.
- 23 Gasoline.
- 24 Class IC flammable liquid.
- 25 Class II combustible liquid.
- 26 Class IIA combustible liquid.
- 27 Class IIB combustible liquid.
- 29 Flammable, combustible liquid, not classified above.
- 20 Flammable, combustible liquid, undetermined.

**Volatile Solid, Chemical**

- 31 Fat, grease (food).
- 32 Grease (nonfood).
- 33 Polish.
- 34 Adhesive, resin, wax.
- 35 Applied paint, varnish.
- 36 Combustible metal.
- 37 Solid chemical (specify type).
- 38 Radioactive material.
- 39 Volatile solid, chemical, not classified above.
- 30 Volatile solid, chemical, undetermined.

**Plastic**

- 41 Polyurethane.
- 42 Polystyrene.
- 43 Polyvinyl.
- 44 Polyacrylic.
- 45 Polyester.
- 46 Polyolefin.
- 49 Plastic, not classified above.
- 40 Plastic, undetermined.

**Natural Product**

- 51 Rubber.
- 52 Cork.
- 53 Leather.
- 54 Crops, leaves, hay, straw.
- 55 Grain, natural fiber.
- 56 Coal, coke, briquettes, peat.
- 57 Food starch.
- 58 Tobacco.
- 59 Natural product, not classified above.
- 30 Natural product, undetermined.

**Wood, Paper**

- 61 Growing wood.
- 62 Felled but unsawn wood.
- 63 Sawn wood.
- 64 Wood shavings.
- 65 Hardboard, plywood.
- 66 Fiberboard (low density material), wood pulp.
- 67 Paper, untreated, uncoated.
- 68 Cardboard.
- 69 Wood, paper, not classified above.
- 60 Wood, paper, undetermined.

**Fabric, Textile, Fur**

- 71 Man-made fabric, fiber, finished goods.
- 72 Cotton, rayon, cotton fabric, finished goods.
- 73 Wool, wool mixture fabric, finished goods.
- 74 Fur, silk, other fabric, finished goods.
- 75 Wig.
- 76 Human hair.
- 79 Fabric, textile, fur, not classified above.
- 70 Fabric, textile, fur, undetermined.

**Material Compounded with Oil**

- 81 Linoleum.
- 82 Oil cloth.
- 83 Treated and/or coated paper.
- 84 Waterproof canvas.
- 85 Dry rags.
- 86 Asphalt treated material.
- 89 Material compounded with oil, not classified above.
- 80 Material compounded with oil, undetermined.

**Other Type of Material Ignited**

- 97 Multiple types of material first ignited.
- 98 Type of material not applicable.
- 99 Type of material not classified above.
- 00 Type of material undetermined or not reported.

**FORM OF MATERIAL IGNITED****Structural Component, Finish**

- 11 Exterior roof covering, surface, finish.
- 12 Exterior sidewall covering, surface, finish.
- 13 Exterior trim, appurtenances.
- 14 Floor covering, surface.
- 15 Interior wall covering, surface items permanently affixed to wall and door surface.
- 16 Ceiling covering, surface.
- 17 Structural member, framing.
- 18 Thermal, acoustical insulation within wall, partition, or floor/ceiling space.
- 19 Structural component, finish, not classified above.
- 10 Structural component, finish, undetermined.

**Furniture**

- 21 Upholstered sofa, chair, vehicle seats.
- 22 Nonupholstered chair, bench.
- 23 Cabinetry.
- 24 Ironing board.
- 25 Appliance housing or casing.
- 29 Furniture not classified above.
- 20 Furniture, undetermined.

**Soft Goods, Wearing Apparel**

- 31 Mattress, pillow.
- 32 Bedding, blanket, sheet, comforter.
- 33 Linen, other than bedding.
- 34 Wearing apparel not on a person.
- 35 Wearing apparel on a person.
- 36 Curtain, blind, drapery, tapestry.
- 37 Goods not made up.
- 38 Luggage.
- 39 Soft goods, wearing apparel, not classified above.
- 30 Soft goods, wearing apparel, undetermined.

**Adornment, Recreational Material**

- 41 Christmas tree.
- 42 Decoration for special event.
- 43 Book.
- 44 Magazine, newspaper, writing paper.

- 45 Toy, game.
- 46 Awning, canopy.
- 47 Tarpaulin, tent.
- 49 Adornment, recreational material, not classified above.
- 40 Adornment, recreational material, undetermined.

**Supplies, Stock**

- 51 Box, carton, bag.
- 52 Basket, barrel.
- 53 Pallet, skid (not in use).
- 54 Rope, cord, twine, yarn.
- 55 Packing, wrapping material.
- 56 Bale storage.
- 57 Bulk storage.
- 58 Cleaning supplies.
- 59 Supplies, stock not classified above.
- 50 Supplies, stock, undetermined.

**Power Transfer Equipment, Fuel**

- 61 Electrical wire, cable insulation.
- 62 Transformer.
- 63 Conveyor belt, drive belt, V belt.
- 64 Tire.
- 65 Fuel.
- 69 Power transfer equipment, fuel, not classified above.
- 60 Power transfer equipment, fuel, undetermined.

**General Form**

- 71 Agricultural product.
- 72 Fence, pole.
- 73 Fertilizer.
- 74 Growing, living form.
- 75 Rubbish, trash, waste.
- 76 Cooking materials.
- 77 Sign.

**Special Form**

- 81 Dust, fiber, lint.
- 82 Pyrotechnics, explosives.
- 83 Atomized, vaporized liquid.
- 84 Chips.
- 85 Palletized material, material stored on pallets.
- 86 Gas or liquid in or from pipe or container.
- 87 Rolled material.
- 88 Adhesive.

**Other Form of Material**

- 87 Multiple form of material ignited.
- 98 Form of material not applicable.
- 99 Form of material not classified above.
- 00 Form of material undetermined or not reported.

**IGNITION FACTOR****Incendiary**

- 11 Incendiary, not during civil disturbance.
- 12 Incendiary, during civil disturbance.

**Suspicious**

- 21 Suspicious, not during civil disturbance.
- 22 Suspicious, during civil disturbance.

**Misuse of Heat of Ignition**

- 31 Abandoned, discarded material.
- 32 Thawing.
- 33 Falling asleep.
- 34 Inadequate control of open fire.
- 35 Cutting, welding too close to.
- 36 Children with, child playing.
- 37 Unconscious, mental, physical impairment.
- 38 Misuse of heat of ignition not classified above.
- 30 Misuse of heat of ignition, undetermined.

**Misuse of Material Ignited**

- 41 Fuel spilled, released accidentally.
- 42 Improper fueling techniques.
- 43 Flammable liquid used to kindle fire.
- 44 Washing part, cleaning, refinishing, painting.
- 45 Improper container.
- 46 Combustible too close to heat.
- 47 Improper storage.
- 48 Children with, child playing.
- 49 Misuse of material ignited not classified above.
- 40 Misuse of material ignited, undetermined.

**Mechanical Failure, Malfunction**

- 51 Part failure, leak, break.
- 52 Automatic control failure.
- 53 Manual control failure.
- 54 Short circuit, ground fault.
- 55 Other electrical failure.
- 56 Lack of maintenance, worn out.
- 57 Backfire.
- 59 Mechanical failure, malfunction not classified above.
- 50 Mechanical failure, malfunction, undetermined.

**Design, Construction, Installation Deficiency**

- 61 Design deficiency.
- 62 Construction deficiency.
- 63 Installed too close to combustibles.
- 64 Other installation deficiency.
- 65 Property too close to.
- 69 Design, construction, installation deficiency not classified above.
- 60 Design, construction, installation deficiency, undetermined.

**Operational Deficiency**

- 71 Collision, overturn, knockdown.
- 72 Accidentally turned on, not turned off.
- 73 Unattended.
- 74 Overloaded.
- 75 Spontaneous heating.
- 76 Improper startup, shutdown procedures.
- 79 Operational deficiency not classified above.
- 70 Operational deficiency, undetermined.

**Natural Condition**

- 81 High wind.
- 82 Earthquake.
- 83 High water, including floods.
- 84 Lightning.
- 89 Natural condition not classified above.
- 80 Natural condition, undetermined.

**Other Ignition Factor**

- 91 Animal.
- 92 Rekindled from a previous fire.
- 99 Other ignition factor not classified above.
- 00 Ignition factor undetermined or not reported.

**Construction Class**

- 0 No Building Involved.
- 1 Fireproof Structure.
- 2 Fire Protected Structure.
- 3 Non-fireproof Structure.
- 4 Wood Frame Structure.
- 5 Metal Structure.
- 6 Heavy Timber Structure.

**Classification of Building By Use—Commercial**

- 01 Bank.
- 02 Brewery.
- 03 Coal Pocket.
- 04 Department Store.
- 05 Electrical Power Plant.
- 06 Factory: Multi Occupancy.
- 07 Factory: Single Occupancy.
- 08 Foundry.
- 09 Freight Depot.
- 10 Garage: Non-Storage.
- 11 Garage: Storage.
- 12 Gas Works.
- 13 Lumber Yard.
- 14 Motor Vehicle Repair Shop.
- 15 Office Building.
- 16 Oil Selling Station.
- 17 Oil Storage Plant.
- 18 Pier, Wharve, Dock, Bulkhead Building.
- 19 Restaurant, diner.
- 20 Shed, Newsstand, Shanty.
- 21 Shipyard, Drydock.
- 22 Stable.
- 23 Steam Generating Plant.
- 24 Store Building, Taxpayer.
- 25 Warehouse, Storehouse.
- 26 Store Building & Private Dwelling.
- 39 Other Commercial.

**Classification of Building By Use—Public**

- 40 Airport Building.
- 41 Asylum.
- 42 Bridge.
- 43 Bus Terminal.
- 44 Church, Synagogue.
- 45 Dance Hall, Banquet Hall.
- 46 Dispensary, Clinic.
- 47 Ferry Terminal.

**Government Buildings—(Not otherwise classified):**

- 48 City.
- 49 Interstate.
- 50 Federal.
- 51 Foreign.
- 52 State.
- 53 Hospital, Infirmary.
- 54 Nursing Home.
- 55 Railroad Station.
- 56 School: College, University.
- 57 School: Private High.
- 58 School: Public High.
- 59 School: Public Jr. High.
- 60 School: Private Elementary.
- 61 School: Public Elementary.
- 62 School: Children's Nursery.
- 63 School: Other.
- 64 Television Studio.
- 65 Theatre, Legitimate.
- 66 Theatre, Motion Picture.
- 67 Transit System—Station Structure.
- 68 Tunnel.
- 69 Other Public.

**Residential**

- 80 Apartment Hotel "A."
- 81 Apartment House "A."
- 82 Boarding House, Rooming House "B."
- 83 Convent, Rectory, Monastery, etc.
- 84 Dormitory—School, Club, Lodge.
- 85 Hotel "B."
- 86 Lodging House "B."
- 87 Motel.
- 88 Private Dwelling: One Family.
- 89 Private Dwelling: Two Family.
- 90 Tenement: New Law "A."
- 91 Tenement: Old Law "A."
- 92 Converted Dwelling "A."
- 99 Other Residential.

**Building Status**

- 1 Occupied.
- 2 Partly Occupied, Good Condition.
- 3 Partly Occupied, Deteriorating.
- 4 Vacant.
- 5 Under Demolition.
- 6 Under Construction.

**Damage to Building or Contents**

- 0 None.
- 1 1 to 15%.
- 2 16 to 49%.
- 3 50% or Greater.

**Area Fire Origin—Floor**

- 00 Outside Building.
- 01 1st Floor.
- to
- 94 94th and Higher.
- 95 Attic.
- 96 Roof.
- 97 Basement.
- 98 Cellar.
- 99 Sub-cellar.

**Area Fire Origin—Room or Area**

- 10 Area Not in Building.
- 11 Attic.
- 12 Awning.
- 13 Balcony.
- 14 Basement.

- 15 Bathroom Toilet.
- 16 Bedroom, Sleeping Area.
- 17 Ceiling.
- 18 Cellar.
- 19 Chimney.
- 20 Classroom Lecture Area.
- 21 Closet.
- 22 Cockloft.
- 23 Court—Exterior.
- 24 Court—Interior.
- 25 Dining Room, Dining Area.
- 26 Duct—Air Conditioning.
- 27 Duct—Exhaust.
- 28 Flooring.
- 29 Furnace Room.
- 30 Hallway—Private.
- 31 Hallway—Public.
- 32 Incinerator Closet or Room.
- 33 Kitchen, Cooking Area.
- 34 Living Room.
- 35 Lobby.
- 36 Machinery Room.
- 37 Office Area.
- 38 Operating Laboratory Area.
- 39 Partition.
- 40 Porch.
- 41 Projection Booth.
- 42 Recreation Area.
- 43 Roof.
- 44 Sales Showroom Display Area.
- 45 Shaft—Duct, Pipe.
- 46 Shaft—Dumbwaiter.
- 47 Shaft—Elevator.
- 48 Shaft—Exterior Light.
- 49 Shaft—Interior Light.
- 50 Shaft—Vent.
- 51 Shipping Receiving Loading Area.
- 52 Stage.
- 53 Stairway.
- 54 Storage Room Area.
- 55 Vacant—Room, Apartment or Area.
- 56 Work Area, Workroom.
- 57 Other Areas, Not Classified (state area).

**Area Fire Origin—Occupancy Classification—Commercial****Factory:**

- 99 Chemicals.

**Clothing:**

- 01 Dresses.
- 02 Undergarment.
- 03 Other (state type).
- 04 Dry Cleaning Laundry.
- 05 Electrical Products.
- 06 Food & Drink Products.
- 07 Furniture.
- 08 Furs, Fur Goods.

**Hats:**

- 09 Men's.
- 10 Women's.
- 11 Leather, Leather Products.
- 12 Machine Shop Metal Works.
- 13 Paints.
- 14 Paper Products.
- 15 Petroleum Products.
- 16 Plastics, Rubber.
- 17 Printing & Allied Industries.
- 18 Shoes.
- 19 Textiles.
- 20 Toy or Doll.
- 21 Woodworking.
- 22 Other Factories Not Classified (state type).

**Store:**

- 23 Auto Accessories.
- 24 Bakery.
- 25 Butcher.



**Area Fire Origin—Occupancy Classification—**  
(continued)**Store:**

- 26 Candy, Cigar, Stationery.
- 27 Clothing.
- 28 Department, Large.
- 29 Department, Small (5&10).
- 30 Dry Cleaner & Tailor.
- 31 Drug.
- 32 Electrical Appliances.
- 33 Fruit & Vegetables.
- 34 Furniture.
- 35 Grocery, Dairy, Delicatessen.
- 36 Haberdashery.
- 37 Ladies Accessories.
- 38 Laundry.
- 39 Paint Hardware.
- 40 Restaurant Luncheonette.
- 41 Shoe.
- 42 Shoe Repair.
- 43 Super Market.
- 44 Tavern.
- 45 Other Stores Not Classified (state type).

**Garages:**

- 46 Non Storage.
- 47 Storage.
- 48 Oil Selling Station.
- 49 Motor Vehicle Repair Shop.
- 50 Office Building.

**Warehouse:**

- 51 Film.
- 52 Paper, Rags, Fibre.
- 53 Other (state type).
- 54 Freight Depot.
- 55 Pier.
- 56 Shipyard.
- 57 Lumber Yard.
- 58 Shed, Newsstand, Shanty, etc.
- 59 Other Commercial Building Occupancies. Not Classified (state type).

**Residential**

- 60 Apartment Hotel, Multiple Dwelling "A."
- 61 Apartment House, Multiple Dwelling "A."
- 62 Boarding House, Rooming House, Multiple Dwelling "B."
- 63 Hotel, Multiple Dwelling "B."
- 64 Lodging House, Multiple Dwelling "B."
- 65 Private Dwelling.
- 66 Rectory, Convent, Monastery, etc.
- 67 Tenement House, New Law, Multiple Dwelling "A."
- 68 Tenement House, Old Law, Multiple Dwelling "A."
- 69 Other Residential, Not Classified (state type)

**Public**

- 70 Airport.
- 71 Cabaret, Banquet Hall.
- 72 Church.
- 73 Dance Hall.
- 74 Hospital.
- 75 Motion Picture Theatre.
- 76 N.Y. Transit System—Station.
- 77 Passenger Depot.

- 78 School.
- 79 Theatre.
- 80 T.V. Studio.
- 81 Other Public, Not Classified (state type).

**Manner Extension**

- 00 Confined to area of origin.
- 01 Cockloft.
- 02 Door or Opening Between Rooms.
- 03 Floor.
- 04 Hall Stairway.
- 05 Partition.
- 06 Pipe Recess.
- 07 Shaft—Dumbwaiter.
- 08 Shaft—Elevator.
- 09 Shaft—Air, Light, Chute, Duct, etc.
- 10 Ceiling.
- 11 Window.
- 12 Other (state how).

**Number of Occupancies**

- 01 1 Occupancy.
- 02 2 Occupancies.
- 99 99 or more Occupancies.

**Buildings**

- 0 did not spread beyond building of origin.
- 1 1 structure or vehicle.
- 9 9 or more buildings or vehicles.

Note: Form BF-24A must be submitted for each building or vehicle listed in this coded space.

**Smoke Detector**

- 0 No detector present.
- 1 Ionization type, power disconnected or battery removed by occupant.
- 2 Ionization type, provided early warning.
- 3 Ionization type, failed to operate, battery powered.
- 4 Ionization type, failed to operate, line voltage power.
- 5 Photoelectric type, power disconnected or battery removed by occupant.
- 6 Photoelectric type, provided early warning.
- 7 Photoelectric type, failed to operate, battery powered.
- 8 Photoelectric type, failed to operate, line voltage power.
- 9 Not possible to determine if detector operated or not.

**Classification by Type Fire or Emergency****Transportation Fires**

- 87 Ship, Vessel.
- 88 Motor Vehicle.
- 89 Other Transportation (state type).

**Non-Structural Fires**

- 86 ADV (Abandoned/Derelict Motor Vehicle).
- 90 Bonfire.
- 91 Brush, Grass.
- 92 Demolition Wood, Building Site.
- 93 Dump, Land Fill.
- 94 Rubbish—Outside Building.

- 95 Manhole.
- 96 N.Y. Transit System—Yard, Roadway, Ties, etc.
- 97 Railroad—Yard Roadway, Ties, etc.
- 98 Tunnel, Bridge.
- 99 Other Non-Structural, Not Classified (state type).

**Emergency**

- 02 Chimney.
- 03 Elevator, Escalator.
- 04 Explosives Escort.
- 05 First Aid—Assist Person(s).
- 06 First Aid—Resuscitation.
- 07 Marine.
- 08 Precarious Condition—Signs, Trees, etc.
- 09 Subway—Railroad.
- 10 Water Leak.
- 11 Bomb—Unexploded, Scare.
- 12 Collapse—Cave In.
- 13 Collision—Vehicular Incident.
- 14 Controlled Fire, Permitted.
- 15 Flood Condition—Broken Water Main.
- 16 Incinerator.
- 17 Leak—Fuel Oil, Gasoline, etc..
- 18 Leak—Hm. Gas, Flam. Vapor.
- 19 Lightning.
- 20 Oil Burner.
- 21 Person Locked In, Locked Out.
- 22 Power—Electrical.
- 23 Pressure Rupture.
- 24 Refrigerant Leak.
- 25 Smoke Condition, Odor, Fumes.
- 26 Sprinkler.
- 27 Steam Discharge.
- 28 Defective Alarm Device (other than Sprinkler).
- 29 Smoke Detector.
- 30 Other.

**Power for Equipment**

- 01 1-23 volts A.C.
- 02 24 volts A.C.
- 11 1-6 volts D.C.
- 12 7-12 volts D.C.
- 15 115 volts A.C.
- 28 208 volts A.C.
- 30 220-230 volts A.C.
- 33 231-330 volts A.C.
- 34 331 or higher volts AC.
- 50 25-50 volts A.C.
- 61 Butane.
- 62 Coal, Coke, Charcoal, Peat.
- 63 Fuel Oil, No. 1 or No. 2.
- 64 Fuel Oil, No. 3 or No. 4.
- 65 Fuel Oil, No. 5 or No. 6.
- 66 Gasoline.
- 67 Kerosene.
- 68 LN gas (stored as liquid).
- 69 LP gas (stored as liquid).
- 70 Natural or illuminating gas (as a gas).
- 71 Paper.
- 72 Propane.
- 99 Other.

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## **Attachment G-A.3**

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**Explanation of Numeric Codes Used on Fire and Emergency Reports -  
From June 1, 1987 to present**

MO2-1 H1-911265-5-R25-815

**14.1 TYPE OF REPORT****Code No.**

- 1 Structural
- 2 Transportation Fire
- 3 Non-Structural Fire
- 4 Emergency Response
- 5 False Alarm
- 6 Additional data (BF-24A)

**14.2 HOW REPORTED****Code No.**

- 10 Telephone
- 20 Street — Manual
- 21 Class 3 — Manual
- 30 Glass 3 — P.F.A.
- 31 Glass 3 Valve, Sprinkler — P.F.A.
- 32 Glass 3, Other Automatic — P.F.A.
- 40
- 50 Verbal
- 60 Pre-Recorded Telephone Alarm
- 70 Tie Line (Direct Line to Dispatcher — Pipeline Corp.)
- 80 Street Box — ERS
- 81 Glass 3 — ERS
- 90 Cable Television Link

*Note: 1. P.F.A. stands for Private Fire Alarm. These are received using the 3-Box-Terminat Designation.*

*2. If the alarm was encountered while responding to or returning from another alarm, it is considered a verbal alarm.*

*3. A pre-recorded telephone alarm (PRTA) is used to designate those telephone alarms received from recording or pre-dialed machines, whether directly to 911, 7-digit telephone or an alarm service.*

**14.3 INITIAL ALARM****Code No.**

- 0 Special Call Other Than Engine Only — No Chief
- 1 Box (Street or Class 3)
- 5 Special Call Engine Only — No Chief
- 6 Special Call (Chief Operated)
- 9 Still

**14.4 HIGHEST ALARM****Code No.**

- 0 Initial Alarm
- 1 More than the Initial Alarm & Less than 3 Engines & 2 Ladder Cos. at work.
- 2 2nd Alarm
- 3 3rd Alarm
- 4 4th Alarm
- 5 5th Alarm
- 6 Simultaneous
- 7 Signal 7-5

**14.5 BOROUGH****Code No.**

- 1 Manhattan
- 2 Bronx
- 3 Staten Island
- 4 Brooklyn
- 5 Queens

**14.6 HAZARDOUS MATERIALS**

**14.6.1** Class to be obtained from D.O.T. required labels or placard or from shipping papers or other documents.

**Code No.**

- 00 No Hazardous Materials Involved
- 11 Class A Explosives
- 12 Class B Explosives
- 13 Class C Explosives
- 15 Blasting Agents
- 21 Flammable Gases
- 22 Non-Flammable Gases
- 23 Poison Gases
- 24 Chlorine
- 25 Oxygen

**FIRE RECORD CODE LIST**

- 31 Flammable Liquids, flashpoint 100 degrees or less.
- 33 Combustible Liquids, flashpoint greater than 100 degrees.
- 41 Flammable Solids
- 42 Spontaneously Combustible Materials
- 43 Materials Dangerous when Wet
- 51 Oxidizers
- 52 Organic Peroxides
- 61 Poisons
- 62 Etiologic (Infectious) Substances
- 63 Irritants
- 71 Radioactive I Materials
- 72 Radioactive II Materials
- 73 Radioactive III Materials
- 81 Corrosives
- 98 Multiple Classes (More than one hazardous material)
- 99 Other

**14.6.2** Amount & Unit — the letter designating the unit of measurement shall follow the two digits indicating the amount. Example: 3000 gals. of gasoline would be correctly coded as 07G in the "Amount" field.

000 No Hazardous Material Involved

- |                |  |
|----------------|--|
| 01 Less than 1 | F Cubic feet, for gases only                                 |
| 02 1-9         | G Gallon   |
| 03 10-49       | M Multiple Units — Ex: a spill involves a liquid and a solid |
|                | P Pound  |
|                | T Ton  |

05 100-499

06 500-999

07 1,000-4,999

08 5,000-9,999

09 10,000-49,999

10 50,000-99,999

11 100,000 and more

**14.7 HEATING EQUIPMENT INVOLVED—  
TYPE OF FUEL USED****Code No.**

1. Kerosene
2. L.P.G.
3. Electric
4. Wood
5. Coal
6. Oil
7. Natural Gas
8. Gasoline
9. Other
0. No Heating Equipment Involved

**14.8 HOW EXTINGUISHED****Code No.**

0. Before Arrival
1. Hand Extinguishers
2. Sprinkler Heads (State Number of heads that operated in Operations Section)
3. Booster Stream
4. Low Pressure Hydrant Stream
5. One 1½" or larger hoseline from a pumping unit or a standpipe outlet, regardless of line termination (Controlling Nozzle, Deckpipe, Stang, Multi Versal, Ladder Pipe, T/L, Foam Nozzle, etc.)
6. Two 1½" or larger hoselines as above.
7. Three 1½" or larger hoselines as above.
8. Four or more 1½" or larger hoselines as above.
9. Other (State How).

**14.9 SPRINKLER PERFORMANCE**—If sprinklers were present or a factor in this operation, record their performance.

1. Equipment Operated
2. Equipment in service, did not operate
3. Equipment present, fire too small to operate
4. Equipment operated, did not extinguish fire
5. No equipment present
9. Equipment present, not in service. (Record action taken in Operations Section)

**14.10 STANDPIPE PERFORMANCE**—If a standpipe system was present or used in this operation, record its performance.

1. Standpipe serviceable and used

2. Standpipe present but not used
5. No standpipe present
9. Equipment present, not in service. (Record action taken in Operations Section)

**14.11 CONDITION ON ARRIVAL CODES**

- 0 No indication of fire
- 1 Overheat
- 2 Smoldering
- 3 Open Flame
- 8 Out on Arrival

**14.12 EQUIPMENT INVOLVED IN IGNITION****1. HEATING SYSTEMS**

10. Solar panel.
11. Central heating unit, furnace
12. Water heater.
13. Woodstove, wall furnaces, fixed local heating unit
14. Indoor fireplace
15. Portable heating unit
16. Chimney, gas vent flue
17. Chimney vent connector
18. Heat transfer system, ducts, pipes.
19. Not classified above.

**2. COOKING EQUIPMENT**

21. Fixed, stationary surface unit, stove
22. Fixed, stationary oven
23. Fixed, stationary food warming appliance.
24. Deep fat fryer
25. Portable cooking, warming unit
26. Open fired grill
27. Grease hood, duct.
29. Not classified above

**3. AIR CONDITIONING, REFRIGERATION EQUIPMENT**

31. Central air conditioning, refrigeration equipment
32. Water Cooling device, tower
33. Cold boxes, freezers, refrigerators.
34. Fixed, stationary local air conditioning unit
35. Portable air conditioning, refrigeration unit, dehumidifier.
39. Not classified above.

**4. ELECTRICAL DISTRIBUTION EQUIPMENT**

41. Fixed Wiring, power lines, junction boxes.
42. Transformer, overcurrent or disconnect equipment.
43. Meter, meter box.
44. Power Switch gear, fused, circuit breakers.
45. Switch, receptacle outlet.
46. Lighting fixture, lamp-holder ballast, sign.
47. Cord, plug
48. Lamp, light bulb.
49. Not classified above.

**5. APPLIANCES EQUIPMENT**

50. Dishwasher.
51. Television, radio, sound or picture.
52. Clothes dryers.
53. Washing machine.
54. Floor care equipment, vacuum.
55. Separate motor, generator.
56. Hand tools, soldering irons, drills.
57. Controlled heat appliance, electrical blankets, steam irons, heat tapes.
58. Electrical razors, can openers.
59. Not classified above.

**6. SPECIAL EQUIPMENT**

61. Electronic equipment, radar, x-rays, computer, telephone, transmitter equipment.
62. Vending machine, drinking fountain.
63. Office machines.
64. Biomedical equipment, device.
65. Separate pump, compressor, sump pump.
66. Internal combustion engine.
67. Conveyor
68. Printing press.
69. Not classified above.



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**7. PROCESSING EQUIPMENT**

- 71. Furnace, oven, kiln.
- 72. Casting, molding, forging.
- 73. Heat treating, quench tank.
- 74. Working, shaping, machine saws, grinders, sanders, etc.
- 75. Coating machine, asphalt saturating, rubber spreading machines.
- 76. Painting, dipping, spraying.
- 77. Chemical process, distilling.
- 78. Waste recovery.
- 79. Not classified above.

**8. SERVICE, MAINTENANCE EQUIPMENT**

- 81. Incinerator.
- 82. Bearing, brake.
- 83. Rectifier, charger, battery.
- 84. Tarpot, tar kettle.
- 85. Arc, oil lamp, gas mantles.
- 86. Elevator.
- 87. Torches, bunsen burners.
- 88. Not classified above.

**9. OTHER OBJECTS, EXPOSURE FIRE**

- 96. Vehicle, exhaust systems, vehicle parts.
- 98. No equipment involved.
- 99. Other object, Exposure Fire not classified above.

**14.13 FORM OF HEAT IGNITION**

- 1. **HEAT FROM FUEL-FIRED, FUEL-POWERED OBJECT**  
The difference between subdivision 11 and subdivision 12 is whether a spark, ember or flame actually escaped from the equipment, or whether it was simply overheating of outside surface of the equipment (or its internal heat) causing the ignition of nearby combustibles.

- 11. Spark, ember, flame escaping from gas fueled equipment.
- 12. Heat from gas fueled equipment, pilot lights, normal flames.
- 13. Spark, ember, flame escaping from liquid fueled equipment.
- 14. Heat from liquid fueled equipment, pilot lights.
- 15. Spark, ember, flame escaping from solid fueled equipment.
- 16. Heat from solid fueled equipment.
- 17. Spark, ember, flame escaping from equipment, fuel not known.
- 18. Heat from equipment; fuel not known.
- 19. Not classified above.

**2. HEAT FROM ELECTRICAL EQUIPMENT ARCING, OVERLOADED.**

- 21. Water caused short circuit arc.
- 22. Short circuit arc from mechanical damage.
- 23. Short circuit arc from defective, worn insulation.
- 24. Unspecified short circuit arc.
- 25. Arc from faulty contact, loose connection, broken conductor.
- 26. Arc, spark from operating equipment or switch.
- 27. Heat from overloaded equipment, wires, motors.
- 28. Fluorescent light ballast.
- 29. Not classified above.

**3. HEAT FROM SMOKING MATERIAL**

- 31. Cigarette.
- 32. Cigar.
- 33. Pipe.
- 39. Not classified above.

**4. HEAT FROM OPEN FLAME, SPARK**

- 41. Cutting torch operation (separating metals).
- 42. Welding torch operation (joining metals).
- 43. Blow torches, plumbers torches, Bunsen Burners, soldering, paint stripping.
- 44. Candle, taper.
- 45. Match.
- 46. Lighter (flame type).
- 47. Campfires, bonfires, warming fires, rubbish fires.
- 48. Backfire from internal combustion engine.
- 49. Not classified above.

**5. HEAT FROM HOT OBJECT**

- 51. Heat, spark from friction, overheated tires.
- 52. Molten metal, hot forging and hot glass.
- 53. Hot ember, ash.
- 54. Electric lamp, light bulbs.
- 55. Rekindle, reignition.
- 56. Heat from properly operating electrical.
- 57. Heat from improperly operating electrical equipment.
- 59. Not classified above.

**6. HEAT FROM EXPLOSIVES, FIREWORKS**

- 61. Explosives, bombs, ammunition.
- 62. Blasting agent.
- 63. Fireworks, sparklers.
- 64. Paper cap, party popper.
- 65. Model rocket, not amateur rocketry.
- 66. Incendiary device.
- 67. Not classified above.

**7. HEAT FROM NATURAL SOURCE**

- 71. Sun's heat.
- 72. Spontaneous ignition, chemical reaction.
- 73. Lightning discharge.
- 74. Static discharge.
- 79. Not classified above.

**8. HEAT SPREADING FROM ANOTHER HOSTILE FIRE (EXPOSURE)**

- 81. Heat from direct flame, convection currents.
- 82. Radiated heat.
- 83. Heat from flying brand, ember, spark.
- 84. Conducted heat.
- 89. Not classified above.

**9. OTHER FORM OF HEAT OF IGNITION**

- 97. Multiple forms of heat of ignition.
- 99. Not classified above.

**14.14 TYPE OF MATERIAL IGNITED****1. GAS**

- 11. Natural gas.
- 12. LP-City Gas (LP and air mix).
- 13. Manufactured gas.
- 14. LP-Gas.
- 15. Anesthetic gas.
- 16. Acetylene.
- 17. Specialty gas other than anesthetic.
- 19. Not classified above.

**2. FLAMMABLE, COMBUSTIBLE LIQUID**

- 21. Ethyl ether, pentane and ethylene oxide (Class 1A).
- 22. Acetone, ethyl alcohol, JP-4 jet fuel and methyl ethyl ketone, (Class 1B).
- 23. Gasoline.
- 24. Butyl alcohol, propyl alcohol styrene and turpentine, (Class 1C).
- 25. Kerosene, Fuel Oil 1, 2, 4, 5 and Diesel Fuel.
- 26. No. 6 fuel oil, cottonseed oil and creosote oil, (Class 1IA).
- 27. Cooking oil, transformer and lubricating oil, (Class 1IB).
- 28. Not classified above.

**3. VOLATILE SOLID, CHEMICAL**

- 31. Fat, grease (food).
- 32. Grease (nonfood), petroleum jellies.
- 33. Polish, paraffin, wax.
- 34. Creosote, pitch, adhesive, resin, tar, gelatin, rosin, asphalt.
- 35. Applied paint, varnish.
- 36. Combustible metal magnesium titanium and zirconium.
- 37. Solid chemical, explosives.
- 38. Radioactive material.
- 39. Not classified above.

**4. PLASTIC****41. RIGID PLASTICS**

- Included are molded plastics such as appliance cases, floor tile, decorative kitchen laminates.

**42. RIGID FOAM PLASTICS**

- Included are rigid thermal foam insulation for walls and refrigerators.

**43. FLEXIBLE PLASTICS**

- Included is electrical wire insulation.

**44. FLEXIBLE FOAM/PLASTICS**

- Included are mattresses, furniture interior foam and carpet pads.

**45. FILM PLASTICS**

- Included are polyethylene trash bags, photographic film and coated wallpaper.
- 49. Plastic not classified above.

**5. NATURAL PRODUCTS**

- 51. Rubber.
- 52. Cork.
- 53. Leather.
- 54. Grass, leaves, hay and straw.
- 55. Grain, feathers, felt, kapok, hemp, jute, cotton, before processing.
- 56. Coal, coke, briquettes, peat.
- 57. Food, starch, excluding fat and grease.
- 58. Tobacco.
- 59. Not classified above.

**6. WOOD, PAPER**

- 61. Growing wood, tree.
- 62. Felled but unseason wood.
- 63. Finished lumber, finished wood.
- 64. Wood shavings, sawdust excelsior.
- 65. Hardboard, plywood.
- 66. Fiberboard, wood pulp, press board.
- 67. Paper, untreated, uncoated.
- 68. Cardboard.
- 69. Not classified above.

**7. FABRIC, TEXTILE, FUR**

- 71. Man-made fabric, fiber, finished goods.
- 72. Cotton, rayon, cotton fabric.
- 73. Wool, wool mixture, fabric.
- 74. Fur, silk, other fabric.
- 75. Wig.
- 76. Human hair.
- 79. Not classified above.

**8. MATERIAL COMPOUNDED WITH OIL**

- 81. Linoleum.
- 82. Oil cloth.
- 83. Treated and/or coated paper, wax paper.
- 84. Waterproof canvas.
- 85. Oily rags.
- 86. Asphalt treated material.
- 89. Not classified above.

**9. OTHER TYPE OF MATERIAL IGNITED**

- 97. Multiple types of material first ignited.
- 99. Not classified above.

**14.15 FORM OF MATERIAL IGNITED****1. STRUCTURAL COMPONENT, FINISH**

- 11. Exterior roof covering, surface, finish.
- 12. Exterior sidewall, covering surface, finish, eaves.
- 13. Doors, porches and platforms.
- 14. Tile, carpet, rug flooring and stairs.
- 15. Interior wall covering.
- 16. Ceiling covering surface.
- 17. Structural member, framing.
- 18. Thermal, acoustical insulation, within wall or ceiling.
- 19. Not classified above.

**2. FURNITURE**

- 21. Upholstered sofa, chair, vehicle seats.
- 22. Nonupholstered chair, bench.
- 23. Cabinetry, filing cabinets, pianos, dressers, desks, tables and bookcases.
- 24. Ironing board.
- 25. Appliance housing or casing.
- 29. Not classified above.

**3. SOFT GOODS, WEARING APPAREL**

- 31. Mattress, pillow.
- 32. Badding, blanket, sheet, comforter, heating pad.
- 33. Linen, towels, tablecloths.
- 34. Wearing apparel not on a person.
- 35. Wearing apparel on a person.
- 36. Curtain, blind, drapery, tapestry.
- 37. Fabrics, yard goods.
- 38. Luggage.
- 39. Not classified above.

**4. ADORNMENT, RECREATIONAL MATERIAL**

- 41. Christmas tree.
- 42. Decoration for special event.
- 43. Book.
- 44. Magazine, newspaper, writing paper, etc.
- 45. Toy, game.
- 46. Awning, canopy.
- 47. Tarpaulin, tent.
- 49. Not classified above.

**5. SUPPLIES, STOCK**

- 51. Box, carton, bag.
- 52. Basket, barrel.
- 53. Pallet, skid.
- 54. Rope, cord, twine, yarn.
- 55. Packing, wrapping material.
- 56. Bale storage.
- 57. Bulk storage.
- 58. Brooms, brushes, mops, cleaning cloths, cleaning supplies.
- 59. Not classified above.

**6. POWER TRANSFER EQUIPMENT, FUEL**

- 61. Electrical wire, cable insulation.
- 62. Transformer.
- 63. Conveyor belt, drive belt, v-belt.
- 64. Tire.
- 65. Fuel.
- 69. Not classified above.

**7. GENERAL FORM**

- 71. Agricultural product.
- 72. Fence, pole.
- 73. Fertilizer.
- 74. Forests, brush and grass.
- 75. Film, cellophane, rubbish, trash, waste.
- 76. Cooking materials.
- 77. Sign.

**8. SPECIAL FORM**

- 81. Dust, fiber, lint, sawdust.
- 82. Pyrotechnics, explosives.
- 83. Atomized, vaporized liquid.
- 84. Chips.
- 85. Material stored on pallets.
- 86. Accelerants.
- 87. Rolled material.
- 88. Adhesive.

**9. OTHER FORM OF MATERIAL**

- 92. Multiple form of material ignited.
- 99. Not classified above.

**14.16 IGNITION FACTOR (CAUSE)****1. INCENDIARY**

- 11. Incendiary.
- 12. Incendiary, during civil disturbance.

**2. SUSPICIOUS**

- 21. Suspicious.
- 22. Suspicious, during civil disturbance.

**3. MISUSE OF HEAT OF IGNITION**

- 31. Abandoned, discarded material, cigarette, etc.
- 32. Thawing.
- 33. Falling asleep.
- 34. Inadequate control of open fire.
- 35. Cutting, welding too close to.
- 36. Children with matches, lighter, etc.
- 37. Unconscious, mental, physical impairment.
- 39. Not classified above.

**4. MISUSE OF MATERIAL IGNITED**

- 41. Fuel spilled, released accidentally.
- 42. Improper fueling technique.
- 43. Flammable liquid used to kindle fire.
- 44. Washing part, cleaning, refinishing, painting.
- 45. Improper container.
- 48. Combustible too close to heat.
- 47. Improper storage.
- 49. Not classified above.

**5. MECHANICAL FAILURE, MALFUNCTION**

- 51. Part failure, leak, break.
- 52. Automatic control failure.
- 54. Short circuit, ground fault.
- 55. Other electrical failure.
- 56. Lack of maintenance, worn out, failure to clean.
- 57. Backfire.
- 59. Not classified above.

**6. DESIGN, CONSTRUCTION, INSTALLATION DEFICIENCY**

- 61. Design deficiency, catalytic converter failure.
- 62. Construction deficiency.
- 63. Installed too close to combustibles.
- 64. Other installation deficiency.
- 65. Property too close to, included are exposure fires.
- 69. Not classified above.

**7. OPERATIONAL DEFICIENCY**

- 71. Collision, overturn, knockdown.
- 72. Accidentally turned on, not turned off.
- 73. Unattended.
- 74. Overloaded.
- 75. Spontaneous heating.
- 76. Improper startup, shutdown procedures.
- 79. Not classified above.

**8. NATURAL CONDITION**

- 81. High wind.
- 82. Earthquake.
- 83. High water, including floods.
- 84. Lightning.
- 89. Not classified above.

**9. OTHER IGNITION FACTORS**

- 91. Animal.
- 92. Rekindled from a previous fire.
- 99. Not classified above.
- 00. No Fire.

**14.17 JUVENILE INVOLVED IN IGNITION**

- 0. Juvenile Not Involved in Ignition or No information that a Juvenile was involved.
- 1. Juvenile Involved in Ignition.

**14.18 CONSTRUCTION CLASS****Code No.**

- 0. No building involved.
- 1. Fireproof Structure.
- 2. Fire Protected Structure.
- 3. Non Fireproof Structure.
- 4. Wood Frame Structure.
- 5. Metal Structure.
- 6. Heavy Timber Structure.

**14.19 CLASSIFICATION OF BUILDING BY USE****COMMERCIAL**

- 592 Bank.
- 723 Brewery.
- 895 Coal Storage.
- 581 Department Store.
- 615 Electrical Power Plant.
- 708 Factory: Multi-Occupancy.
- 709 Factory: Single Occupancy.
- 771 Foundry.
- 894 Freight Depot.
- 882 Garage: Non-Storage.
- 889 Garage: Storage.
- 767 Gas Works, Natural Gas Plant.
- 851 Lumber Yard.
- 573 Motor Vehicle Repair Shop, Paint Shop.
- 581 Office Building, State, City, Federal or Commercial.
- 571 Oil Selling Station.
- 841 Oil Storage Plant.
- 898 Pier, Wharf, Dock, Bulkhead Building.
- 161 Restaurant, Diner.
- 925 Shed, Newstand, Shanty.
- 781 Shipyard, Drydock.
- 815 Stable.
- 614 Steam Generating Plant.

- 599 Storebuilding, Taxpayer.
- 891 Warehouse Storehouse.
- 410 Store Building & Private Dwelling.
- 580 Other Commercial.

**PUBLIC**

- 171 Airport Building.
- 361 Asylum.
- 921 Bridge.
- 173 Bus Terminal.
- 133 Church, Synagogue.
- 121 Dance Hall, Banquet Hall.
- 334 Dispensary, Clinic.
- 177 Ferry Terminal.
- 331 Hospital, Infirmary.
- 311 Nursing Home.
- 174 Railroad Station, Street Level.
- 175 Railroad Station, Below Grade.
- 176 Railroad Station, Above Grade.
- 241 School: College, University.
- 215 School: High School.
- 214 School: Junior High.
- 213 School: Elementary.
- 211 School: Children's Nursery.
- 210 School: Other.
- 185 Television Studio.
- 181 Theatre, Legitimate.
- 183 Theatre, Motion Picture.
- 170 Transit System—Station Structure.
- 922 Tunnel.
- 119 Other Public.

**RESIDENTIAL**

- 489 Apartment Hotel "A".
- 429 Apartment House "A".
- 439 Boarding House, Rooming House "B".
- 485 Convent, Rectory, Monastery, etc.
- 461 Dormitory—School, Club, Lodge.
- 449 Hotel "B".
- 430 Lodging House "B".
- 440 Motel.
- 411 Private Dwelling: One Family.
- 414 Private Dwelling: Two Family.
- 420 Tenement: New Law "A".
- 423 Tenement: Old Law "A".
- 422 Converted Dwelling "A".
- 490 Other Residential.

**SPECIAL PROPERTIES**

- 972 Airport Runway.
- 934 Cemetery.
- 981 Construction Site.
- 932 Dump, Landfill.
- 931 Open Land, Fields.
- 965 Parking Area, Lot.
- 983 Pipeline, Power Line Right-of-Way.
- 962 Public Street.
- 952 Railroad Switching Yard, marshalling yard.
- 936 Vacant Lots.
- 939 Outdoor Property Not Classified.

**14.20 BUILDING STATUS CODE****Code Description**

- 1 Occupied: The building is normally fully occupied or is intended to be fully occupied. A few vacant areas, which are rentable, may exist.
  - 2 Partly Occupied: The building is in good condition and more than 25 percent of the areas are vacant.
  - 3 Partly Occupied, Deteriorating: The building has some vacant areas and these are expected to remain vacant until demolition or alteration because of the condition of the building or its surroundings.
  - 4 Vacant: The building is entirely vacant. (Even if squatters are present.)
  - 5 Under Demolition: The building is in the process of being torn down.
  - 6 Under Construction: The building is under construction and does not have any occupants.
  - 7 Under Construction: The building is partially occupied, whether under a temporary certificate of occupancy or not.
- Note: The status code applies to the building, not the fire area. Therefore, codes 1, 2 and 3 may be used whether the fire itself occurred in a vacant or occupied area, and code 1 may apply even if the fire occurred in a vacant area (for example, a fire in a vacant apartment being repainted for a new tenant). The occupied or vacant status of the fire area is now recorded on the "Area of Origin" Code. (see Paragraph 2.19.2)



4

**14.21 COMPLEX**

11. **PUBLIC RECREATION COMPLEX**  
Included are zoos, amusement parks and general recreation parks.
12. **STADIUM, EXHIBITION HALL COMPLEX**  
Included ballparks, racetracks, sports gardens and arenas.
14. **CLUB COMPLEX**  
Included are golf clubs, tennis clubs and country clubs.
20. **EDUCATIONAL COMPLEX**  
Included are schools, colleges and universities.
33. **MEDICAL CARE COMPLEX**  
Included are Hospitals, Medical Centers, Mental Institutions.
34. **PRISON COMPLEX**
40. **BUSINESS WITH RESIDENTIAL COMPLEX**  
Included are apartments over stores.
41. **DWELLING COMPLEX (ONE AND TWO-FAMILY)**
42. **APARTMENT COMPLEX**
44. **HOTEL COMPLEX**  
Included are motels, inns and lodges.
47. **MOBILE HOME PARK COMPLEX**
58. **SHOPPING COMPLEX**  
Included are department stores, malls, discount houses and shopping centers. Also included are groups of business and commercial establishments which may contain theaters and other places of assembly.
59. **OFFICE COMPLEX**  
Included are non-military government office complexes.
61. **POWER PRODUCTION COMPLEX**
63. **MILITARY RESERVATION DEFENSE COMPANY**
65. **FARM COMPLEX**
70. **INDUSTRIAL PLANT, MANUFACTURING COMPLEX**
80. **WAREHOUSE, STORAGE COMPLEX**
91. **CONSTRUCTION COMPLEX**  
Included are demolition operations.
93. **CAMPSITE COMPLEX**
94. **WATERFRONT COMPLEX**  
Included are marinas.
95. **RAILROAD TRANSPORT COMPLEX**
96. **ROAD COMPLEX**  
Included are highways, streets and all public ways.
97. **AIRPORT COMPLEX**
98. **NO COMPLEX**  
If other properties meeting the definition for a complex as defined above are identified, they may be indicated by Complex Code 99.

**AREA FIRE ORIGIN****14.22 FLOOR CODE NO.**

- 00 **OUTSIDE BUILDING**
- 01 1st Floor
- to to
- 94 94th and Higher
- 95 Attic
- 96 Roof
- 97 Basement
- 98 Cellar
- 99 Sub-Cellar

**14.23 AREA FIRE ORIGIN—****OCCUPANCY CLASSIFICATION****00 NOT IN BUILDING****COMMERCIAL**

- Factory:**
- 99 Chemicals
  - 01 Dresses
  - 02 Undergarment
  - 03 Other (state type)
  - 04 Dry Cleaning Laundry
  - 05 Electrical Products
  - 06 Food and Drink Products

- 07 Furniture
- 08 Furs, Fur Goods
- 09 Men's Hats
- 10 Women's Hats
- 11 Leather, Leather Products
- 12 Machine Shop Metal Works
- 13 Paints
- 14 Paper Products
- 15 Petroleum Products
- 16 Plastics, Rubber
- 17 Printing and Allied Industries
- 18 Shoes
- 19 Textiles
- 20 Toy or Doll
- 21 Woodworking
- 22 Other Factories not classified (state type)

**Store:**

- 23 Auto Accessories
- 24 Bakery
- 25 Butcher
- 26 Candy, Cigar, Stationary
- 27 Clothing
- 28 Department, large
- 29 Department, small (5 & 10)
- 30 Dry Cleaner & Tailor
- 31 Drug
- 32 Electrical Appliance
- 33 Fruits and Vegetables
- 34 Furniture
- 35 Grocery, Dairy, Delicatessen
- 36 Haberdashery
- 37 Ladies Accessories
- 38 Laundry
- 39 Paint, Hardware
- 40 Restaurant Luncheonette
- 41 Shoe
- 42 Shoe Repair
- 43 Supermarket
- 44 Tavern
- 45 Other Stores not classified (state type)

**Garages:**

- 46 Non storage
- 47 Storage
- 48 Oil Filling Station
- 49 Motor Vehicle Repair Shop
- 50 Office Building

**Warehouse:**

- 51 Film
- 52 Paper, Rags, Fibre
- 53 Other (state type)
- 54 Freight Depot
- 55 Pier
- 56 Shipyard
- 57 Lumber yard
- 58 Shed, Hangar, Shanty, etc.
- 59 Other Commercial Building Occupancies, not classified (state type)

**Residential:**

- 60 Apartment, Hotel, Multiple Dwelling "A"
- 61 Apartment House, Multiple Dwelling "A"
- 62 Boarding House, Rooming House, Multiple Dwelling "B"
- 63 Hotel, Multiple Dwelling "B"
- 64 Lodging House, Multiple Dwelling "B"
- 65 Private Dwelling
- 66 Rectory, Convent, Monastery, etc.
- 67 Tenement House, New Law, Multiple Dwelling "A"
- 68 Tenement House, Old Law, Multiple Dwelling "A"
- 69 Other Residential, not classified (state type)

**Public:**

- 70 Airport
- 71 Cabaret, Banquet Hall
- 72 Church
- 73 Dance Hall
- 74 Hospital
- 75 Motion Picture Theatre
- 76 N.Y. Transit System Station
- 77 Passenger Depot
- 78 School
- 79 Theatre
- 80 TV Studio
- 81 Other Public, not classified (state type)

**14.24 AREA OF FIRE ORIGIN****A. MEANS OF EGRESS**

01. Hallway, corridor, mail.
02. Exterior stairway.
03. Interior stairway.
04. Escalator.
05. Lobby, entrance way.
06. Not classified above.

**1. ASSEMBLY AREA**

11. Fixed seats (100 or more persons).
12. Without fixed seats (100 or more persons).
13. With or without fixed seats, (less than 100 persons)
14. Living room, family room, lounge area.
15. Sales, showroom area.
16. Library, art galleries, exhibit.
17. Swimming pool area.
18. Not classified above.

**2. FUNCTION AREAS**

21. Bedrooms, patient rooms, cells, lockups.
22. Wards, dormitories, barracks.
23. Dining area, luncheon, cafeteria.
24. Kitchen, cooking area, cloakroom.
25. Laundry area.
26. Health clubs, massage parlors, barber, beauty.

**3. FUN AREAS (continued)**

31. Laboratory.
32. Printing or photographic room.
33. First aid, treatment room.
34. Operating room.
35. Electronic, computer, telephone room, telephone booth.
36. Performance, stage area, indoor sports.
37. Projection room, stage light.
38. Process, manufacturing area.
39. Not classified above.

**4. STORAGE AREAS**

41. Tank, bin, product storage room.
42. Closet.
43. Supply room.
44. Records storage room, vault.
45. Shipping, receiving, loading mail room.
46. Trash or rubbish container, compactor.
47. Garage, carport, vehicle storage.
48. Not classified above.

**5. SERVICE FACILITIES**

51. Elevator, dumbwaiter.
52. Electrical, plumbing, ventilation shaft.
53. Light shaft.
54. Laundry or mail chute.
55. Duct.
56. Display window.
57. Chimney, flue, stovepipe.
58. Conveyor.
59. Not classified above.

**6. SERVICE, EQUIPMENT AREA**

61. Machinery room.
62. Heating equipment, water heater area.
63. Switchgear area, transformer vault.
64. Incinerator room area.
65. Maintenance shop, workshop, paint shop, welding shop.
66. Test cell.
67. Enclosure with pressurized air.
68. Enclosure with enriched oxygen atmosphere.
69. Not classified above.

**7. STRUCTURAL AREAS, NON-FUNCTIONAL**

71. Crawl space, cellar, substructural area.
72. Exterior balcony, open porch.
73. Floor and ceiling assembly concealed floor/ceiling space.
74. Roof and ceiling assembly, concealed roof/ceiling space.
75. Wall assembly, concealed wall space.
76. Exterior wall surface.
77. Exterior roof surface.
78. Awning, overhang.
79. Not classified above.

**8. TRANSPORTATION, VEHICLE AREAS**

- 81. Passenger area.
- 82. Trunk, load carrying area.
- 83. Engine, running gear, wheel area.
- 84. Fuel tank, fuel line.
- 85. Operating, control area, cab, cockpit.
- 86. Exterior exposed surface.
- 89. Not classified above.

**9. OTHER AREAS OF ORIGIN**

- 91. On or near railroad right of way, embankment.
- 92. On or near highway, public way, street.
- 93. Terrace, patio, courtyard.
- 94. Lawn, field, open area, vacant lot.
- 95. Wildland area, woods.
- 97. Multiple location.
- 98. Vacant room, apartment or area.
- 99. Not classified above.

**14.25 MANNER OF EXTENSION****Code No.**

- 00 Confined to area of origin.
- 01 Cockloft.
- 02 Door or opening between rooms.
- 03 Floor.
- 04 Hall, Stairway.
- 05 Partition.
- 06 Pipe Recess.
- 07 Shaft-dumbwaiter.
- 08 Shaft-Elevator.
- 09 Shaft-air, Light, Chute, Duct, etc.
- 10 Ceiling.
- 11 Window.
- 12 Other (state type).

**14.26 NUMBER OF OCCUPANCIES****Codes Description**

- 01 1 occupancy
- 02 2 occupancies
- 
- 
- 
- 99 99 or more occupancies

**14.27 BUILDINGS****Code: 0 to 9**

- 0— did not spread beyond building of origin
- 1—1 structure or vehicles
- 
- 
- 

9—9 or more buildings or vehicles

**NOTE:** Form BF-24A must be submitted for each building or vehicle listed in this coded space.

**14.28 DAMAGE CODES****14.28.1 Percentage Codes**

- 0 No appreciable damage
- 1 From 1 through 15%
- 2 From 16 through 49%
- 3 50% or greater

**14.28.2 Extent of Damage Codes: To be used in the Damage Category Boxes "Flame, Smoke and Water".**

- 1. Confined to object or origin.
- 2. Confined to part of room or area of origin.
- 3. Confined to room of origin.
- 4. Confined to fire-rated compartment of origin.
- 5. Confined to floor of origin.
- 6. Confined to structure of origin.
- 7. Extended beyond the structure of origin.
- 9. No damage of this type.

**14.29 SMOKE AND HEAT DETECTOR CODES****14.29.1 Present**

- 1 Present
- 0 Not Present

**14.29.2 Type**

- 1. Smoke
- 2. Heat

**14.29.3 Power Source**

- 1. Battery
- 2. A/C

**14.29.4 Performance**

- 1. In room of fire; operated
- 2. Not in room of fire; operated
- 3. In room of fire; did not operate
- 4. Not in room of fire; did not operate
- 5. In room; fire too small to operate
- 6. Did not operate; power source removed
- 9. Not classified

**14.30 POWER FOR EQUIPMENT**

- 01 1-23 volts A.C.
- 02 24 volts A.C.
- 11 1-6 volts D.C.
- 12 7-12 volts D.C.
- 15 115 volts A.C.
- 28 208 volts A.C.
- 30 220-230 volts A.C.
- 33 231-330 volts A.C.
- 34 331 or higher volts A.C.
- 50 25-50 volts A.C.
- 61 Butane
- 62 Coal, Coke, Charcoal, Peat
- 63 Fuel Oil, No. 1 or No. 2
- 64 Fuel Oil, No. 3 or No. 4
- 65 Fuel Oil, No. 5 or No. 6
- 66 Gasoline
- 67 Kerosene
- 68 LN gas (stored as liquid)
- 69 LP gas (stored as liquid)
- 70 Natural or Illuminating gas (as a gas)
- 71 Paper
- 72 Propane
- 99 Other

**14.31 CODE FOR TYPE OF ACTION TAKEN**

- 1. Extinguishment
- 2. Rescue
- 3. Investigation
- 4. Remove Hazard
- 5. Standby
- 6. Salvage
- 7. First Aid
- 9. Cancelled Enroute

**14.32 CLASSIFICATION BY TYPE FIRE OR EMERGENCY****TRANSPORTATION****Code No.**

- 87 Ship, Vessel
- 88 Motor Vehicle
- 89 Other Transportation (state type)

**NON-STRUCTURAL FIRES****Code No.**

- 84 Explosion, no after fire
- 85 Outside Spill/Leak with Fire
- 86 ADV (Abandoned/Derelict Motor Vehicle)
- 90 Bonfire
- 91 Brush, Grass
- 92 Demolition Wood, Building Site
- 93 Dump, Land Fill
- 94 Rubbish—Outside Building
- 95 Manhole
- 96 N.Y. Transit System—Yard, Roadway, Ties, etc.
- 97 Railroad Yard, Roadway, Ties, etc.
- 98 Tunnel, Bridge
- 99 Other Non-Structural, not classified (state type)

**EMERGENCY****Code No.**

- 03 Elevator, Escalator
- 04 Explosives Escort
- 05 First Aid—Assist Person(s)

**06 First Aid—Resuscitation**

- 07 Marine
- 08 Precarious Condition—Signs, Trees, etc.
- 09 Subway, Railroad
- 10 Water Leak
- 11 Bomb—Unexploded, Scare
- 12 Collapse—Cave In
- 13 Collision—Vehicular Incident
- 14 Controlled Fire, Permitted
- 15 Flood Condition—Broken Water Main
- 16 Incinerator
- 17 Leak—Fuel Oil, Gasoline, etc.
- 18 Leak—Illuminating Gas, Flammable Vapor
- 19 Lightning
- 20 Oil Burner
- 21 Person Locked In, Locked Out
- 22 Power Electrical
- 23 Pressure Rupture
- 24 Refrigerant Leak
- 25 Smoke Condition, Odor, Fumes
- 26 Sprinkler—Leak, Water Discharge, Damaged Head, etc.
- 27 Steam Discharge
- 28 Defective Alarm Device (other than Sprinkler)
- 29 Smoke Detector
- 30 Defective Alarm (Sprinkler)—Surge, Work on System, etc.
- 31 Other

**14.33 MOBILE PROPERTY TYPE CODES**

- 11 Automobile
- 12 Bus
- 13 Motorcycle, Snowmobile
- 14 Motorhome
- 15 Travel Trailer
- 17 Mobile Home
- 20 Freight, Road Transport
- 30 Rail Transport
- 40 Water Transport
- 50 Air Transport
- 60 Heavy Equipment
- 70 Special Vehicles, Containers
- 99 Other Mobile Property Types

## Attachment G-A.4

### Significant fire incidents occurring in WTC 1 (12)

Significant Fire	Incident Date	Fire Location	# Sprinklers Activated	# Standpipes Activated	Cause of Fire	Material Ignited
1	9/9/77	B-6 level storage room	2		None listed	Not listed
2	9/23/77	Dumpster on B-4 level	2		Not classified	Trash/waste
3	10/16/81	19th floor office area	-	2	Discarded material	Furniture
4	12/23/83	2 dumpsters on B-4 level	2	1	Suspicious	Trash/waste
5	1/27/85	Office space on mezzanine level (Floor 2)	2		Incendiary	Trash/waste
6	9/10/85	Garbage dumpster in service elevator lobby on floor 43	2	1	Suspicious	Trash/waste
7	11/1/85	Storage closet on B-4 level	3	1	Suspicious	Supplies/stock
8	6/7/86	Dumpster fire on floor 106, compactor room on floor 107	2	1	None listed	Trash/waste
9	9/30/91	Office on B-4 level	≥1	2	Discarded material	Trash/waste
10	11/19/91	Electrical closet on floor 93	0	2	Short circuit	Electrical wire or cable insulation
11	7/23/92	Level B-5 at the power distribution panel	0	2	Electrical failure	Electrical wire or cable insulation
12	11/10/99	Computer room on floor 104	3	≥1	None listed	Plastics, electronic equip

10	15	20	25	30	35	40	45	50
5 006 0	10 7 001 0	10 7 008 0	10					
TYPE	NO.	SECT.	PIS.	NA.	30	31	32	33

## OPERATIONS

Fire Patrol 2 on the scene.

                     D.C.

2306

TYPE FULL NAME

TIME OF ARRIVAL

TYPE FULL NAME

TIME OF ARRIVAL

PAGE

1 of 1



FOR FIRE RECORDS USE ONLY				DATE AND TIME ALARM RECEIVED				DURATION OF INCIDENT		LOCATION		REPORT	
TYPE REPORT				MONTH DAY YEAR				HOURS MINUTE		ALARM		INCIDENT	
				CO. NO. HOUR MINUTE				HOURS MINUTE		BOROUGH		REPORT NUMBER	
1				09 23 77				1 22 4		00 25 4		1 0 1 0070 5 006 0113 0153 01 187	

AIDED AND CASUALTIES				EXTINGUISHMENT		INVESTIGATION		STRUCTURE		AREA FIRE ORIGIN	
CIVILIANS				RESP.		CAUSE		USE		FLOOR CODE	
EVACUATED FIRST AID INJURED KILLED				UNINJURED INJURED		FIRE CAUSE		STATUS		ROOM OF ORIGIN	
00 00 00 00 00 03 2 0 02 00 1 63				1 15 1 0 0 99 54 50 00							

ADDRESS	1 World Trade Ctr.	Man	PONYA	B-4 (Low
BUILDING	110 250 x250		NAME OF OCCUPANT	ROOM/APT. N
(Second Card)			Pal Lorenza (PONYA)	
			LEFT IN CHARGE	

COMPANIES		TYPE NO. SECT. PTS.		TYPE NO. SECT. PTS.		TYPE NO. SECT. PTS.		TYPE NO. SECT. PTS.	
1	006	0	05	7	001	0	05		

## OPERATIONS

Responded to 3-70-10 (Manual Alarm)

Upon arrival was informed of fire in Dumpster B-4 level 1 WTC. Ordered investigation and found fire therein, which had been extinguished prior to the arrival of this dept. Operations as follows:

E.6- Rolled up lengths stood fast.

L.1- Search. examination, ventilation of B-4 level, conditions as stated.

Michael R. Porgio	1	BN.	D.C.	DIV.	PAGE
Michael R. Porgio	2251	TIME OF ARRIVAL	TYPE FULL NAME	TIME OF ARRIVAL	

ADMINISTRATIVE COMPANY

## REPORT - STRUCTURAL FIRE

BF 24 (11-80)

INCIDENT LOCATION		DATE AND TIME		ALARM RECEIVED		INCIDENT DURATION		BOX LOCATION		REPORT		COS. RESP.					
TYPE REPORT	COMMUNITY	ALARM	DAY	YEAR	HOUR	MINUTE	SECONDS	BOX NUMBER	REPORT NUMBER	REPORT	REPORT	REPORT	REPORT				
1	01	5	006	0113	10-16-81	1912	02:30	6	1	7	1	8084	0172	01	531	03	2

  

AIDED AND CASUALTIES		EXTINGUISHMENT		IGNITION		STRUCTURE		AREA FIRE ORIGIN		FIRE EXTENSION		SPECIAL USE	
EVALUATED	INJURED	DEATH	PROPERTY	STANDPIPE	STANDPIPE	STANDPIPE	STANDPIPE	STANDPIPE	STANDPIPE	STANDPIPE	STANDPIPE	STANDPIPE	STANDPIPE
01	00	00	00	00	00	00	00	00	00	00	00	00	00

  

STREET NAME		BUILDING		AREA		LEFT IN CHARGE	
NUMBER	STREET NAME	BUILDING	AREA	LEFT IN CHARGE	LEFT IN CHARGE	LEFT IN CHARGE	LEFT IN CHARGE
1	World Trade Center	103	103	103	103	103	103

  

EQUIPMENT INVOLVED IN IGNITION		EQUIPMENT INVOLVED IN IGNITION		EQUIPMENT INVOLVED IN IGNITION		EQUIPMENT INVOLVED IN IGNITION	
UNIT	PTS	ITEM	UNIT	PTS	ITEM	UNIT	PTS
5	010	20	5	006	10	5	007

  

OPERATIONS		OPERATIONS		OPERATIONS		OPERATIONS	
UNIT	PTS	ITEM	UNIT	PTS	ITEM	UNIT	PTS
5	010	20	5	006	10	5	007

  

TYPE FULL NAME		TYPE FULL NAME		TYPE FULL NAME		TYPE FULL NAME	
TYPE FULL NAME	TYPE FULL NAME	TYPE FULL NAME	TYPE FULL NAME	TYPE FULL NAME	TYPE FULL NAME	TYPE FULL NAME	TYPE FULL NAME
1	01	5	006	0113	10-16-81	1912	02:30

ADMINISTRATIVE COMPANY



**STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY**

TYPE REPORT				DATE AND TIME ALARM RECEIVED				BOX LOCATION		IGNITION				STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION		
MONTH	DAY	YEAR	MINUTE	BOROUGH	BOX NO.	BUILDING NO.	TERM. STAGE	COUR. INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCT.	USE	STATUS	RISK DAMAGE	CONT'S DNGE	FLOOR CODE	RN/AREA CODE	OCCUPANCY	MANNER OF OCCUPANCIES
6	10	16	31	1912	1	8084	00													

  

NUMBER (INCL. HYPHEN)				STREET NAME				TYPE		IF MOBILE PROPERTY	
YR.	MAKE	MODEL	79 SERIAL NO.	LICENSE	STATE	ITEM					
1	001	10									

  

UNIT	PTS.	195	201	207	213	219	225	231	236
189									

**OPERATIONS**

Lad.8 (cont.)- Forced door to Office room#2073

Res.1- Checked vent ducts and stairways on and above fire floor, secured passenger elevators serving fire floor.

Patrol#1- On scene, salvage work on 16th and 17th floors.

Patrol#2- On scene, salvage work on 18th floor.

Div.1- D.C. Rossi on scene, in charge of Department operations upon arrival.

B.C. James J. McKenna 1 D.C. John D. Rossi 1

BN. DIV. PAGE

202

TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME TIME OF ARRIVAL

## REPORT – STRUCTURAL FIRE

[illegible]

## REPORT - STRUCTURAL FIRE

BF-24 (11/80)

TYPE REPORT		INCIDENT LOCATION		DATE AND TIME		ALARM RECEIVED		INCIDENT DURATION		HIGHEST ALARM		BOX LOCATION		REPORT		COS. RESP.			
ADMIN. COMPANY	BLOCK NUMBER	DAY	MONTH	YEAR	HOUR	MINUTE	SECONDS	MINUTES	HOURS	MINUTES	SECONDS	BOX NUMBER	BOX LOCATION	REPORT NUMBER	REPORT DATE	REPORT TIME	REPORT		
1	01	5	01	01	37	01	27	85	2053	01	00	2	1	1	8084	0293	01	11	02

  

AIDED AND CASUALTIES		EXTINGUISHMENT		IGNITION		STRUCTURE		AREA FIRE ORIGIN		FIRE EXTENSION		SPECIAL USE													
EVAQUATED	FIRST AID	KILLED	INJURED	UNFURNISHED	CODE	SPRINKLER	NO. OPEN	STAMPED	LINE USED	COUP. INVOLVED	HEAT FORM	MATERIAL TYPE	CONSTRUCT.	USE	STATUS	CONT. DAMAGE	FLOOR CODE	RM. AREA CODE	OCCUPANCY	MANNER OF	OCCUPANCY	NO. BLISS	SMOKE DETECTORS	WITHIN BLDG.	
00	00	00	00	2	01	00	3	96	66	60	75	11	1	15	1	1	02	59	59	00	00	0	0	0	0

  

STREET NAME		BUILDING		AREA	
NUMBER	STREET NAME	TYPE	STORY	AREA	STORY
1	World Trade Center	1	130	110	200x200

  

NAME OF OCCUPANT		ROOM, APT. NO.		LEFT IN CHARGE	
NAME	ROOM, APT. NO.	NAME	ROOM, APT. NO.	NAME	ROOM, APT. NO.
New York City Port Authority NY, NJ	130	Sgt. Doubarski, PA Police	130		

  

EQUIPMENT INVOLVED IN IGNITION		MAKE		MODEL		S/N		POWER	
YR.	MAKE	MODEL	S/N	POWER	YR.	MAKE	MODEL	S/N	POWER
194	7	001	05	7	010	05	151	187	

## OPERATIONS

On arrival, found two sprinkler heads containing fire in unoccupied office occupancy on mezzanine level. Units assigned as follows:

Eng. 6: Stretched line, stood fast.  
 Lad. 1: Located fire, searched, extinguished remaining fire. Shut down sprinkler system.  
 Lad. 10: Checked for extension.

10-41 signal (code 1) transmitted.

AUG 28 2003  
 JRF

B.C.		BN		D.C.		DIV.		PAGE	
NAME	TIME OF ARRIVAL	NAME	TIME OF ARRIVAL	NAME	TIME OF ARRIVAL	NAME	TIME OF ARRIVAL	PAGE	OF
John J. Spillane	2055	John J. Spillane	2055					1	1

AUG 28 2003  
JRE  
8160138

INCIDENT LOCATION		DATE AND TIME		ALARM RECEIVED		INCIDENT DURATION		BOX LOCATION		REPORT		COS. RESP.					
ADMIT. COMPANY	BLOCK NUMBER	MONTH	DAY	YEAR	HOUR	MINUTE	MINUTES	INITIAL ALARM	BOX NUMBER	REPORT NUMBER	REPORT	ENGINE	RESP.				
1	01	09	10	85	16	05	01	00	1	2	1	8084	0119	01	578	7	6

AIDED AND CASUALTIES		EXTINGUISHMENT		STRUCTURE		FIRE ORIGIN		SPECIAL USE															
EVALUATED	FIRST AID	INJURED	KILLED	UNIFORMED	SPRINKLER	STANDARD	STAGE	EQUIP INVOLVED	HEAT FORM	MATERIAL TYPE	CONSTRUCT	USE	STATUS	BLOG DAMAGE	FLOOR CODE	NO. AREA CODE	MANNER OF	OCCUPANCY	NO. BLDGS.	SMOKE DETECTORS	WITHIN BLDG.	FIRE EXTENSION	
00	00	00	00	5	2	1	3	89	00	60	75	21	1	15	0	43	35	81	00	01	1	2	95

STREET NAME		TYPE		BUILDING		AREA	
NUMBER	STREET NAME	TYPE	STREET NAME	BUILDING	AREA	STREET NAME	AREA
1	World Trade Center	1	43 FL	99	200 x 200		

Port Authority NY NJ  
NAME OF OCCUPANT  
EQUIPMENT INVOLVED IN IGNITION

Sgt. Mbin, PA Police Dept.  
LEFT IN CHARGE

UNIT	PTS.	ITEM	YR.	MAKE	MODEL	S/N	POWER							
5	010	10	5	006	02	7	010	10	7	008	09	7	001	10

OPERATIONS

Upon arrival at the Command Ctr of the World Trade Center, Batt. 1 was informed by the PA Police that, according to their reports, there was a sprinkler flow and smoke condition on the 43 floor. When Ladder 10 (1st due) reported a medium smoke condition on the 43 floor, Batt. 1 transmitted signal 10-76. The fire was located in a garbage dumpster in a service elevator lobby on the 43 F and was extinguished by 2 sprinkler heads with no extension.

Engine 10- Took rolled-ups to 42 floor. Stretched a 2½ line from the standpipe in B stairwell to fire location. Line used for overhauling. Chauffeur manned the Standpipe phone at the CP and assisted in communications.

B.C. *Kenneth T. McGowan* D.C. *John S. Hodgens*  
Kenneth T. McGowan 1611 John Hodgens  
TYPE FULL NAME TIME OF ARRIVAL  
PAGE 1 of 2

FIRE RECORDS

TYPE REPORT			DATE AND TIME ALARM RECEIVED			BOX LOCATION		IGNITION			STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION										
MONTH	DAY	YEAR	HOUR	MINUTE	SECOND	BOROUGH	BOX NO.	BUILDING NO.	TERM. STAGE	EQUIP. INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCT.	USE	STATUS	BLDG. DAMAGE	CONT'S DAMAGE	FLOOR CODE	RW AREA CODE	OCCUPANCY	MANNER OF	OCCUPANCIES		
6	09	10	85	16	05	1	8084																		
NUMBER (INCL. HYPHEN)		STREET NAME		TYPE		ITEM																			
1		World Trade Center																							
YR.		MAKE		MODEL		79 SERIAL NO.		LICENSE		STATE															
5		007 02																							
UNIT		PTS.		201		207		213		219		225		231		236									

## OPERATIONS

Engine 6- (teamed with E.10) Assisted E. 10 in Standpipe stretch.

Engine 7- Manned the Standpipe phone in Stairway B on 1st Fl., relayed messages to and from Command Center

Ladder 10- To 43 fl, stairway B, found fire, searched 43 fl (negative) made necessary examination and overhaul of fire area.

Ladder 1-to 44 fl, searched for fire, smoke extension, searched for troubled occupants (negative) Checked top ten fls (101-110) for smoke (Neg.)

Ladder 8- Made secondary search of 43 fl (negative). Searched fls 44 to 49. Searched affected service elevator cars #17 & 29.

Batt. 4- Set up operations post on 43 fl. Communicated with Command Center, supervised operations of units on 43 and 44 fls.

E.4, E.3 (HiRise Unit), L.15 & Res. Co 1 stood fast, took up.

Brooklyn Cos responding on supplemental Boxes 9031 & 9032 at 1617 hrs Batt 31, Batt 32, E. 205, E. 279, L.101, L.110 stood fast, took up.

F.C.U. - Established Field Hqtrs, Monitored Communications.

Sprinkler heads (2) replaced by P.A. personnel.

Signal 10-41, Code 1 transmitted, Evidence of separate, previous fire reported to FM McCaffrey.

Responded to Scene: AC Matthew Farrell, Manhattan Borough Commander

Signal	Time	By
10-84	1609	E.10
10-76	1615	Batt 1
P.W.H.	1627	Div 1
U.C.	1640	Div 1

S.C.	Signature	BN.	D.C.	Signature	DIV.	PAGE
	Kenneth T. McGowan	1611		John Hodgins		2 OF 2
	TYPE FULL NAME	TIME OF ARRIVAL		TYPE FULL NAME	TIME OF ARRIVAL	

FIRE RECORDS

## FIRE - STRUCTURAL FIRE

TYPE REPORT				INCIDENT LOCATION				DATE AND TIME ALARM RECEIVED				INCIDENT DURATION				BOX LOCATION				REPORT				COS. RESP.																															
COMMUNITY				BLOCK NUMBER				YEAR				MINUTES				HOURS				BOOTH				ENGINE				FIRE																											
101				5010				11-01-85				00:05				00:15				00:21				00:04				01:15				03:22																							
AIDED AND CASUALTIES				EXTINGUISHMENT				MATERIAL TYPE				CONSTRUCTION				STATUS				FLOOR CODE				AREA FIRE ORIGIN				FIRE EXTENSION				SPECIAL USE																							
EVALUATED				UNINJURED				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				USE				BLOG DAMAGE				OCCUPANCY				MANNER OF				OCCUPANCY'S				NO. BLDGS. INVOLVED				SMOKE DETECTORS				1 2 3							
00 00 00 00				5 03 01 3				98 00 60 50				21 1 15 1 1				1 00 54 50 00 00				86				86				86				86				86				86				86				86							
STREET NAME				STREET NAME				STREET NAME				STREET NAME				STREET NAME				STREET NAME				STREET NAME				STREET NAME				STREET NAME				STREET NAME				STREET NAME				STREET NAME				STREET NAME				STREET NAME			
102				World Trade Center				126				130				130				130				130				130				130				130				130				130				130				130			
NAME OF OCCUPANT				ROOM, APT. NO.				YR				MAKE				MODEL				SIN				POWER				187				187				187				187				187				187							
EQUIPMENT INVOLVED IN IGNITION				UNIT				PTS.				ITEM				188				188				188				188				188				188				188				188				188							
5 000 10 5 007 05 15 006 05 17 010 10 17 001 10				188				188				188				188				188				188				188				188				188				188				188				188				188			

## OPERATIONS

Upon arrival to box 8093, at the World Trade Center complex found the following conditions. Proceeded to W.T.C. Command Post and was informed by Port Authority P.D. of heavy smoke condition on B4 level in area under trade center between nos. 1&2 WTC. Report from companies was for fire in storage closet of mens bathroom in this area, with three sprinkler heads activated keeping fire under control until arrival of F.D. units Co's operated VIZ:

Joseph L. Barracato  
 DIV. 1 OF 2  
 TIME OF ARRIVAL 0408  
 TYPE FULL NAME  
 TIME OF ARRIVAL

**REPORT - ADDITIONAL DATA**

**STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY**

TYPE REPORT				DATE AND TIME ALARM RECEIVED				BOX LOCATION		IGNITION				STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION					
MONTH	DAY	YEAR		HOOR	MINUTE	BOROUGH	BOX NO.	BUILDING NO.	TERM. STAGE	EQUIP. INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCT.	USE	STATUS	BLOG. DAMAGE	CONT'S DMGT.	FLOOR CODE	Rm/AREA CODE	OCCUPANCY	MANNER OF	OCCUPANCIES
6	11	01	85	04	05	1	8093																

NUMBER (INCL. HYPHEN)		STREET NAME	TYPE	IF MOBILE PROPERTY
182		WTC		

YR.	MAKE	MODEL	79 SERIAL NO.	LICENSE	STATE

UNIT	PTS.	195	201	207	213	219	225	231	236
189									

**OPERATIONS**

- E-10 stretched line into fire area from standpipe and extinguished all remaining in closet area
- E-7 Stretched line from opposite side of fire and stood fast
- E-6 assisted E10 in stretching line and relieved on line and then washdown
- L-10 found fire and performed necessary VES and overhaul in area, made primary and secondary search, then up
- L-1 performed necessary VES and checked for possible extension in surrounding areas

Tines: 10-84 0408  
 10-75 0410  
 All Hands 0425  
 10-41-1 0425

B.C. Joseph L. Barracato 1 D.C. \_\_\_\_\_ BN. \_\_\_\_\_ DIV. \_\_\_\_\_

Joseph L. Barracato 0408  
 TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME TIME OF ARRIVAL

**ADMINISTRATIVE COMPANY**

PAGE 2 OF 2



## REPORT – STRUCTURAL FIRE

BF-24 (1/80)-175M-608551 (83)[illegible]

## OPERATIONS

Received 1100 alarm for a heavy smoke condition on the 110th floor. While responding received 2nd. source and the box was filled out. Upon arrival found fire in garbage dumpster on the 106th floor. Sprinklers in operation and a heavy smoke condition on 106-110th floors. - Units operated VIZ: Transmitted 10/76.

BC \_\_\_\_\_ D.C. \_\_\_\_\_ DIV. \_\_\_\_\_  
PAGE \_\_\_\_\_ OF \_\_\_\_\_

BN. \_\_\_\_\_ TYPE FULL NAME \_\_\_\_\_ TIME OF ARRIVAL \_\_\_\_\_  
0154  
DATE OF ARRIVAL \_\_\_\_\_



**REPORT — ADDITIONAL DATA****STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY**

TYPE REPORT		DATE AND TIME ALARM RECEIVED				BOX LOCATION		IGNITION				STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION						
MONTH	DAY	YEAR	HOUR	MINUTE	BOROUGH	BOX NO.	BUILDING NO.	TERM STAGE	EQUIP INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCT	USE	STATUS	BLOG DAMAGE	CONT'S DMGR	FLOOR CODE	RM/AREA CODE	OCCUPANCY	MANNER OF	OCCUPANCIES
6	06	07	86	09	49	1	8084	0	3	00	00	99	75	1	15	1	1	94	57	40	00	99

  

NUMBER (INCL. HYPHEN)	STREET NAME	TYPE	IF MOBILE PROPERTY
1	WTC		

  

YR.	MAKE	MODEL	79 SERIAL NO.	LICENSE	STATE

  

UNIT	PTS.	195	201	207	213	219	225	231	236
1	001	05	5	003	02				

**OPERATIONS**  
 L.7- Upon arrival reported to 106<sup>th</sup> floor and stretched from

standpipe to fire and extinguished same. Fire in dumpster assisted L.10 in making search of area. Negative

L.6 Reported to 106th floor. Ordered to stand fast. Then up.

L.10 Reported to 106th Floor. Ordered to stand fast. Then up.

L.10 Reported to 107th floor. Found fire in compactor room. Sprinkler in operation. Forced entry to sprinkler shut-off room. Shut same. Made necessary search and examination. Then up.

L.1 Reported to 107th floor. Assisted Ladder 10 in search and examination. Negative search. Then up.

R-1 searched floors above fire. Light smoke. Negative. Then up.

L.3/Hi-Rise Unit: ordered to 10-2

Field Comm Unit: - ordered to 10-2

Batt. 4: supervised operations on 106-110 floors. Units L.7, L.10 L.1 and R-1. Then up.

B.C.	BN.	D.C.	DIV.	PAGE OF
TYPE FULL NAME	TIME OF ARRIVAL	TYPE FULL NAME	TIME OF ARRIVAL	

**ADMINISTRATIVE COMPANY**

[illegible]42Li<sup>+</sup>

ADDRESS		STREET NAME		TYPE		SURF (KURT)	
BRD	NUMBER (INCL. HYPHEN)	SURF	DIRECTION				
115		1208		148			
116		117		118		119	
120		121		122		123	
124		125		126		127	
131		132		133		134	
135		136		137		138	
141		142		143		144	
145		146		147		148	
151		152		153		154	
155		156		157		158	
161		162		163		164	
165		166		167		168	
171		172		173		174	
175		176		177		178	
181		182		183		184	
185		186		187		188	
191		192		193		194	
195		196		197		198	
201		202		203		204	
205		206		207		208	
211		212		213		214	
215		216		217		218	
221		222		223		224	
225		226		227		228	
231		232		233		234	
235		236		237		238	
241		242		243		244	
245		246		247		248	
251		252		253		254	
255		256		257		258	
261		262		263		264	
265		266		267		268	
271		272		273		274	
275		276		277		278	
281		282		283		284	
285		286		287		288	
291		292		293		294	
295		296		297		298	
301		302		303		304	
305		306		307		308	
311		312		313		314	
315		316		317		318	
321		322		323		324	
325		326		327		328	
331		332		333		334	
335		336		337		338	
341		342		343		344	
345		346		347		348	
351		352		353		354	
355		356		357		358	
361		362		363		364	
365		366		367		368	
371		372		373		374	
375		376		377		378	
381		382		383		384	
385		386		387		388	
391		392		393		394	
395		396		397		398	
401		402		403		404	
405		406		407		408	
411		412		413		414	
415		416		417		418	
421		422		423		424	
425		426		427		428	
431		432		433		434	
435		436		437		438	
441		442		443		444	
445		446		447		448	
451		452		453		454	
455		456		457		458	
461		462		463		464	
465		466		467		46	

Port Authority Police Officer Simpson

## OPERATIONS

Upon arrival to the box we found the following conditions: Fire in an office on the B4 level of 4 WTC. Co's operated viz!

- operated Vizi
- E 10 - took position and hooked up to hydrant, stretched line & operated to extinguish fire.
- E 7 - stretched 2nd line and operated to extinguish fire.
- relieved Eng 10 and washed down.
- E 6 - performed necessary VPE of fire floor, performed primary search-negative, overhauled.
- L 10 - searched floor above, for extension-negative, performed secondary search of the fire floor.
- L 11 - searched floor above, for extension-negative, performed secondary search of the fire floor.

9

THOMAS J. HART

1837

2000

of 1

[illegible]

WHITE-GIRL RECORDS - BLOW-BATTALION - PINK-REPERALL - GOLD-ADMINISTRATIVE COMPANY



INCIDENT LOCATION				DATE AND TIME ALARM RECEIVED				INCIDENT DURATION				BOX LOCATION				REPORT				COMPANIES RESPONDING				HAZ MAT				SPECIAL USE			
INCIDENT	LOCATION	MONTH	DAY	YEAR	HOUR	MINUTE	SECOND	HOURS	MINUTES	SECONDS	BOX	LOCATION	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT	REPORT						
101	5010	11	19	91	18	27	03	30	81	1	2	8064	02768	0362	01	239	13	08	16	00	000	0	0	0	0	0					
<p><b>CAUSE FOR ALARM:</b> ERS 1st alarm, transmitted from World Trade Center(WTC) Police Desk, while responding: Monitored 10-84 by Eng. 10, and WTC Hamble Talkie,</p> <p><b>On arrival at WTC CP.:</b></p> <ol style="list-style-type: none"> <li>1. Received report of fire in electrical cabinets, on possible 4 floors,</li> <li>2. Received reports of smoke condition on 4 floors,</li> <li>3. Alarms had been transmitted from floors 93 to 98.</li> <li>4. WTC Police Desk heavily engaged in receipt of phone inquiries relative to fire.</li> </ol>																															
<p><b>REPORT OF N.Y. AUTHORITY</b></p> <p>LEFT IN CHARGE: Mr. Cancelliere, Bldg. Hgt. POWER</p> <p>ROOMMATE: MAKE MODEL SERIAL NUMBER</p> <p>EQUIPMENT INVOLVED IN IGNITION</p> <p>WTC UNIT: PTS. ITEM</p> <p>WTC 1: 500630 500730 500830 500930 501030 501130 501230 501330 501430 501530 501630 501730 501830 501930 502030 502130 502230 502330 502430 502530 502630 502730 502830 502930 503030 503130 503230 503330 503430 503530 503630 503730 503830 503930 504030 504130 504230 504330 504430 504530 504630 504730 504830 504930 505030 505130 505230 505330 505430 505530 505630 505730 505830 505930 506030 506130 506230 506330 506430 506530 506630 506730 506830 506930 507030 507130 507230 507330 507430 507530 507630 507730 507830 507930 508030 508130 508230 508330 508430 508530 508630 508730 508830 508930 509030 509130 509230 509330 509430 509530 509630 509730 509830 509930 510030 510130 510230 510330 510430 510530 510630 510730 510830 510930 511030 511130 511230 511330 511430 511530 511630 511730 511830 511930 512030 512130 512230 512330 512430 512530 512630 512730 512830 512930 513030 513130 513230 513330 513430 513530 513630 513730 513830 513930 514030 514130 514230 514330 514430 514530 514630 514730 514830 514930 515030 515130 515230 515330 515430 515530 515630 515730 515830 515930 516030 516130 516230 516330 516430 516530 516630 516730 516830 516930 517030 517130 517230 517330 517430 517530 517630 517730 517830 517930 518030 518130 518230 518330 518430 518530 518630 518730 518830 518930 519030 519130 519230 519330 519430 519530 519630 519730 519830 519930 520030 520130 520230 520330 520430 520530 520630 520730 520830 520930 521030 521130 521230 521330 521430 521530 521630 521730 521830 521930 522030 522130 522230 522330 522430 522530 522630 522730 522830 522930 523030 523130 523230 523330 523430 523530 523630 523730 523830 523930 524030 524130 524230 524330 524430 524530 524630 524730 524830 524930 525030 525130 525230 525330 525430 525530 525630 525730 525830 525930 526030 526130 526230 526330 526430 526530 526630 526730 526830 526930 527030 527130 527230 527330 527430 527530 527630 527730 527830 527930 528030 528130 528230 528330 528430 528530 528630 528730 528830 528930 529030 529130 529230 529330 529430 529530 529630 529730 529830 529930 530030 530130 530230 530330 530430 530530 530630 530730 530830 530930 531030 531130 531230 531330 531430 531530 531630 531730 531830 531930 532030 532130 532230 532330 532430 532530 532630 532730 532830 532930 533030 533130 533230 533330 533430 533530 533630 533730 533830 533930 534030 534130 534230 534330 534430 534530 534630 534730 534830 534930 535030 535130 535230 535330 535430 535530 535630 535730 535830 535930 536030 536130 536230 536330 536430 536530 536630 536730 536830 536930 537030 537130 537230 537330 537430 537530 537630 537730 537830 537930 538030 538130 538230 538330 538430 538530 538630 538730 538830 538930 539030 539130 539230 539330 539430 539530 539630 539730 539830 539930 540030 540130 540230 540330 540430 540530 540630 540730 540830 540930 541030 541130 541230 541330 541430 541530 541630 541730 541830 541930 542030 542130 542230 542330 542430 542530 542630 542730 542830 542930 543030 543130 543230 543330 543430 543530 543630 543730 543830 543930 544030 544130 544230 544330 544430 544530 544630 544730 544830 544930 545030 545130 545230 545330 545430 545530 545630 545730 545830 545930 546030 546130 546230 546330 546430 546530 546630 546730 546830 546930 547030 547130 547230 547330 547430 547530 547630 547730 547830 547930 548030 548130 548230 548330 548430 548530 548630 548730 548830 548930 549030 549130 549230 549330 549430 549530 549630 549730 549830 549930 550030 550130 550230 550330 550430 550530 550630 550730 550830 550930 551030 551130 551230 551330 551430 551530 551630 551730 551830 551930 552030 552130 552230 552330 552430 552530 552630 552730 552830 552930 553030 553130 553230 553330 553430 553530 553630 553730 553830 553930 554030 554130 554230 554330 554430 554530 554630 554730 554830 554930 555030 555130 555230 555330 555430 555530 555630 555730 555830 555930 556030 556130 556230 556330 556430 556530 556630 556730 556830 556930 557030 557130 557230 557330 557430 557530 557630 557730 557830 557930 558030 558130 558230 558330 558430 558530 558630 558730 558830 558930 559030 559130 559230 559330 559430 559530 559630 559730 559830 559930 560030 560130 560230 560330 560430 560530 560630 560730 560830 560930 561030 561130 561230 561330 561430 561530 561630 561730 561830 561930 562030 562130 562230 562330 562430 562530 562630 562730 562830 562930 563030 563130 563230 563330 563430 563530 563630 563730 563830 563930 564030 564130 564230 564330 564430 564530 564630 564730 564830 564930 565030 565130 565230 565330 565430 565530 565630 565730 565830 565930 566030 566130 566230 566330 566430 566530 566630 566730 566830 566930 567030 567130 567230 567330 567430 567530 567630 567730 567830 567930 568030 568130 568230 568330 568430 568530 568630 568730 568830 568930 569030 569130 569230 569330 569430 569530 569630 569730 569830 569930 570030 570130 570230 570330 570430 570530 570630 570730 570830 570930 571030 571130 571230 571330 571430 571530 571630 571730 571830 571930 572030 572130 572230 572330 572430 572530 572630 572730 572830 572930 573030 573130 573230 573330 573430 573530 573630 573730 573830 573930 574030 574130 574230 574330 574430 574530 574630 574730 574830 574930 575030 575130 575230 575330 575430 575530 575630 575730 575830 575930 576030 576130 576230 576330 576430 576530 576630 576730 576830 576930 577030 577130 577230 577330 577430 577530 577630 577730 577830 577930 578030 578130 578230 578330 578430 578530 578630 578730 578830 578930 579030 579130 579230 579330 579430 579530 579630 579730 579830 579930 580030 580130 580230 580330 580430 580530 580630 580730 580830 580930 581030 581130 581230 581330 581430 581530 581630 581730 581830 581930 582030 582130 582230 582330 582430 582530 582630 582730 582830 582930 583030 583130 583230 583330 583430 583530 583630 583730 583830 583930 584030 584130 584230 584330 584430 584530 584630 584730 584830 584930 585030 585130 585230 585330 585430 585530 585630 585730 585830 585930 586030 586130 586230 586330 586430 586530 586630 586730 586830 586930 587030 587130 587230 587330 587430 587530 587630 587730 587830 587930 588030 588130 588230 588330 588430 588530 588630 588730 588830 588930 589030 589130 589230 589330 589430 589530 589630 589730 589830 589930 590030 590130 590230 590330 590430 590530 590630 590730 590830 590930 591030 591130 591230 591330 591430 591530 591630 591730 591830 591930 592030 592130 592230 592330 592430 592530 592630 592730 592830 592930 593030 593130 593230 593330 593430 593530 593630 593730 593830 593930 594030 594130 594230 594330 594430 594530 594630 594730 594830 594930 595030 595130 595230 595330 595430 595530 595630 595730 595830 595930 596030 596130 596230 596330 596430 596530 596630 596730 596830 596930 597030 597130 597230 597330 597430 597530 597630 597730 597830 597930 598030 598130 598230 598330 598430 598530 598630 598730 598830 598930 599030 599130 599230 599330 599430 599530 599630 599730 599830 599930 600030 600130 600230 600330 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614730 614830 614930 615030 615130 615230 615330 615430 615530 615630 615730 615830 615930 616030 616130 616230 616330 616430 616530 616630 616730 616830 616930 617030 617130 617230 617330 617430 617530 617630 617730 617830 617930 618030 618130 618230 618330 618430 618530 618630 618730 618830 618930 619030 619130 619230 619330 619430 619530 619630 619730 619830 619930 620030 620130 620230 620330 620430 620530 620630 620730 620830 620930 621030 621130 621230 621330 621430 621530 621630 621730 621830 621930 622030 622130 622230 622330 622430 622530 622630 622730 622830 622930 623030 623130 623230 623330 623430 623530 623630 623730 623830 623930 624030 624130 624230 624330 624430 624530 624630 624730 624830 624930 625030 625130 625230 625330 625430 625530 625630 625730 625830 625930 626030 626130 626230 626330 626430 626530 626630 626730 626830 626930 627030 627130 627230 627330 627430 627530 627630 627730 627830 627930 628030 628130 628230 628330 628430 628530 628630 628730 628830 628930 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643330 643430 643530 643630 643730 643830 643930 644030 644130 644230 644330 644430 644530 644630 644730 644830 644930 645030 645130 645230 645330 645430 645530 645630 645730 645830 645930 646030 646130 646230 646330 646430 646530 646630 646730 646830 646930 647030 647130 647230 647330 647430 647530 647630 647730 647830 647930 648030 648130 648230 648330 648430 648530 648630 648730 648830 648930 649030 649130 649230 649330 649430 649530 649630 649730 649830 649930 650030 650130 650230 650330 650430 650530 650630 650730 650830 650930 651030 651130 651230 651330 651430 651530 651630 651730 651830 651930 652030 652130 652230 652330 652430 652530 652630 652730 652830 652930 653030 653130 653230 653330 653430 653530 653630 653730 653830 653930 654030 654130 654230 654330 654430 654530 654630 654730 654830 654930 655030 655130 655230 655330 655430 655530 655630 655730 655830 655930 656030 656130 656230 656330 656430 656530 656630 656730 656830 656930 657030 657130 657230 657330 657430 657530 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TYPE REPORT		DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER		BUILDING NO.		IGNITION		STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION					
MONTH	DAY	YEAR	HOUR	MINUTE	BOX NO.	BOX NUMBER	INCIDENT NUMBER	BUILDING NO.	CHIEF	ENGINE	ALARM	MATERIAL TYPE	MATERIAL TYPE	CONSTRUCTION	FLOOR NO.	AREA NO.	AREA NO.	EXTENSION	EXTENSION				
6	11	91	18	27	1	8084	0562	00	3	41	22	42	61	1	59	1	93	81	52	09	04	0	
DAMAGE		DETECTORS		STREET NAME		TYPE		STORIES		AREA		WIDTH		LENGTH									
2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
World Trade Center		World Trade Center		World Trade Center		World Trade Center		World Trade Center		World Trade Center		World Trade Center		World Trade Center									
OCCUPANT (Driver)		ROOM/APT.		IF MOBILE PROPERTY		TYPE		YR.		MAKE		MODEL		V.I.N.		LICENSE		STATE					
5 205 02		5 279 02		5 055 02		5 024 02		5 015 02		5 001 02		5 224 02		5 003 02		7 010 30		7 001 30					
7 010 30		7 001 30		7 015 30		7 008 20		7 110 10		7 131 10		7 006 30		7 020 10		237 UNIT		243					
237 UNIT		243		249		255		261		261		273		279		285		291					
OPERATIONS																							
STRATEGY: To attempt to contain the fire situation to electrical closets, and to prevent panic and hysteria in occupancies with large civilian populations, and establish parameters of fire and smoke condition as quickly as possible.																							
Action taken:																							
1. On arrival at WTC command post, assumed command of fire situation,																							
2. Communicated with Ladder Co. 10 who confirmed fire situation on floors 93, 94, 95 and possibly on 96,																							
3. Ordered the transmission of signal 10-76 based on: potential for large volume of fire, height to fire area, time involved in units response, difficulty in effecting good voice communications in building,																							
4. Ordered Manhattan Dispatcher to alert 10-76 arriving units to assemble in Lobby Staging area, pending unit assignment,																							
5. Ordered first alarm units to conduct diligent search.																							
6. Ordered 1st alarm Engine companies to stretch from the "A" stairwell, but not to use water until confirmation of power off was received for electrical closets,																							
ONE																							
Lawrence M. Byrnes																							
1830																							
TYPE FULL NAME																							
TIME ARRIVED																							
TYPE FULL NAME																							
TIME ARRIVED																							



BF-24A (12/86) 104-0-00135-1000-1

## REPORT - ADDITIONAL DATA

## STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT		DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER		BUILDING NO.				IGNITION				STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION	
MONTH	DAY	YEAR	HOUR	MINUTE	BOROUGH	BOX NUMBER			BUILDING NO.	FLOOR OR AREA	FLOOR INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	DOE	STATUS	FLOOR CODE	OCCUPANCY	AREA CODE	MANAGER	REMOVED REPORT	
6	11	19	91	18	27	1	0084	0562	00	3	41	25	43	61	1	591	1	93	81	52	09	04	0

  

DAMAGE		DETECTORS	
SPR. PERFORMANCE	% DAMAGED	FLAME	SMOKE
2	1	1	0

  

STREET NAME		TYPE	
NUMBER (INCL. HYPHEN)	SUITE	STREET	TYPE
1	1	WORLD TRADE CENTER	

  

BUILDING		AREA	
STORIES	WIDTH	LENGTH	
99	0250	0250	

  

OCCUPANT (Driver)		ROOM/APT.	
TYPE	YR.	MAKE	MODEL

  

IF MOBILE PROPERTY		V.I.N.		LICENSE		STATE	
TYPE	YR.	MAKE	MODEL	V.I.N.	LICENSE	STATE	

## OPERATIONS

7. Confirmed with WTC personnel, engineering staff as to time frame for electrical power removal for effected floors,
8. Denied WTC Police request to initiate general evacuation of floors "93 to roof level", based on unknowns of: a. smoke conditions, b. stair availability, c. numbers of people that may be involved,
9. Upon notification by WTC Engineering staff of (2) elevators stuck at floor 88 and 101, Ladder Co. 6 assigned task of victim removal, as accompanied by WTC elevator mechanic,
10. As Chief Officers arrived at Command Post they were issued WTC Handie Talkies and their assignments,
11. Called for EMS response for reported burn victim (mechanic with facial burns and for possible needs,
12. Primary search of upper floors proved to be time consuming due to large floor area and limited Handie Talkie capabilities, conducted by 1st alarm trucks,
13. Rescue Company 1 assigned to follow up secondary search of floors with subsequent finding Ladder companies,
14. 10-76 Signal proved very effective, provided immediate response of Chief Officers to initiate various sector controls.

BC Lawrence M. Byrnes 1830 85 DC  DIV. 3

TYPE FULL NAME TIME ARRIVED TYPE FULL NAME TIME ARRIVED

BF-24A (12/86) 157-12-001531-0020-1

## REPORT — ADDITIONAL DATA

## STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT			DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER		BUILDING NO.		IGNITION		STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION																																						
MONTH	DAY	YEAR	HOUR	MINUTE	BOROUGH	BOX NUMBER	INCIDENT NUMBER	BUILDING NO.	CORE OR APPL.	EQUIP. INVOLVED	PEAC FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	USE	FLOOR CODE	OCCUPANCY	AREA CODE	MANNER	OCCUPANCY	REVISED REPORT																																				
6	11	1991	18	27	1	2084	0562	0003	41	23	43	61	1	591	1	93	81	52	09	04	0																																				
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UNIT		PTS.		243		249		255		261		261		273		279																																									

## OPERATIONS

## Chief Officers at scene:

DAC. E. Butler,,,	CW Duty,
DC. H. MeyerS	Div. 1,
DC. V. Dunn	Div. 3,
E.C. L. Byrnes	Batt. ONE,
B.C. R. Ardisson	Batt. 2
B.C. Davison	Batt. 4,
B.C. Roche	Batt. 6,
B.C. Shelley	Batt. 31,
B.C. Wagner	Batt. 32,
B.C. Dawe	Batt. 7,
B.C. Cesark	Safety Battalion.

## Personnel Present at Scene:

R. Schirer Fire Comm. Liaison,  
D.C. Basile EMS Supervisor,  
D.C. Tim 11210  
Lt. Valle NYPD Pct. 1 supervisor,  
Mr. T. Cancelliere WTC Bldg Mgr.,  
(2) Representative of Salvation Army.

B.C.	ONE	DC.	DIV.	4
Lawrence M. Byrnes	1830			
TYPE FULL NAME	TIME ARRIVED	TYPE FULL NAME	TIME ARRIVED	

BF-24A (12/86)

## REPORT — ADDITIONAL DATA

## STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT				DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER		BUILDING NO.		IGNITION		STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION	
MONTH	DAY	YEAR	TIME	BOROUGH	BOX NUMBER	INCIDENT NUMBER	BUILDING NO.	COND. OR APPAR.	EQUIP. INVOLVED	HEAT FORM	MATERIALS TYPE	MATERIAL FORM	CONSTRUCTION	USE	STATUS	FLOOR CODE	OCCUPANCY	AREA CODE	MANNER	OCCUPANCY	REVISED REPORT
6	11	1991	1827	1	8084	0562	00	341	23	45	61	1	591	1	93	31	52	09	04	0	

  

ADDRESS		STREET NAME		TYPE	
BOX NUMBER (INCL. HYPHEN)	SUPPL. PREFIX	STREET NAME	TYPE	SUPPL. PREFIX	SUPPL. DIRECTION
1		WORLD TRADE CENTER			

  

DAMAGE		DETECTORS	
SPR. PERFORMANCE	% DAMAGED	FLAME	SMOKE
2	1	1	0

  

WORLD TRADE CENTER	
OCCUPANT (Driver)	ROOM/APT.

  

IF MOBILE PROPERTY		TYPE		YR.		MAKE		MODEL		V.I.N.		LICENSE		STATE	

## OPERATIONS

## Time Sequences:

Signal	Time	By Order of:
Box 8084	1827	Dispatcher,
10-84	1830	Batt. 1,
10-76	1833	Batt. 1,
10-44	1842	Batt. 1,
10-84	1845	Div. 1,
10-75	1848	Div. 1,
22-9084	1858	Batt. 1,
10-84	1904	Car. 6B, Chief Butler,
UC/8084	2008	Car. 6B, via FCU.

## Injuries:

\_\_\_\_\_, superficial burns,  
 \_\_\_\_\_, chest pains.

Unit Citations to be submitted for Ladder Co. 10 and Engine Co. 10.

B.C. \_\_\_\_\_ ONE \_\_\_\_\_ D.C. \_\_\_\_\_ DIV. \_\_\_\_\_ PAC \_\_\_\_\_  
 B.N. \_\_\_\_\_ L \_\_\_\_\_  
 Lawrence M. Byrnes 1830  
 TYPE FULL NAME TIME ARRIVED TYPE FULL NAME TIME ARRIVED



DF-247 (12/66) **REPORT - ADDITIONAL DATA**

**STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR**

TYPE REPORT			DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER		BIA DATE 10		IGNITION		STRUCTURE		AREA OF DAMAGE		
MONTH	DAY	YEAR	HOUR	MINUTE	SECOND	BOX NUMBER	LOCATION	INCIDENT NUMBER	INCIDENT NUMBER	BIA DATE 10	BIA DATE 10	CAUSE OF LOSS	EQUIP INVOLVED	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	USE	AREA OF DAMAGE	
6	11	1991	18	27	1	8084	0562	00	3	41	23	43	61	1	391	1	53	1	53

DAMAGE		DETECTORS	
PERFORMANCE	TYPE	PERFORMANCE	TYPE
21	1	0	0

World Trade Center

OCCUPANT (Driver) 113 ROOMAPT

IF MOBILE PROPERTY

TYPE	YR	128	MAKE	140	MODEL	158	V.I.N.
169	195	201	207	213	219	225	

227 UNIT PTS. 243 249 255 261 267

## OPERATIONS

## Unit Operations:

Eng. 10: Responded to the 93rd floor, stretched of 2½" hose, hooked up to standpipe in assisted Lad. 10 in search and size up 94th floors, used a fog nozzle to ext in electrical closets, assisted in evac civilians, connected to buildings stand

Eng. 6: Responded to the 95th floor, stretched 2½" hose, stood fast, assisted in heat of fire area, connected to and supplied siamese,

Eng. 7: Responded to the 93rd floor, stretched 2½" hose from the "B" stairway, opened ECC, connected to standpipe and supplied

Eng. 4: Responded to the 97th floor, hooked 2½" hose, stood fast, assisted in heat

Following Engin Companies reported to Lobby stood fast: Eng. 18, 205, 24, 10, and 220410003.

\*\* E-10 also used dry chem on 93

AC ONE DC  
R.N.  
Laurence M. Byrnes 1830  
TYPE FULL NAME TIME ARRIVED



BF 24A (12/89) **REPORT - ADDITIONAL DATA**

**STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY**

TYPE REPORT		DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER		BUILDING NO.		EQUIP INVOLVED		IGNITION		STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION		REQUIRED REPORT	
MONTH	DAY	YEAR	HOUR	MINUTE	BOX NUMBER	INCIDENT NUMBER	BUILDING NO.	EQUIP INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	USE	STATUS	FLOOR CODE	OCCUPANCY	AREA CODE	MANAGER	OCCUPANCY	REQUIRED REPORT			
6	11	91	18	27	1	8084	0562	00	3	41	23	43	61	1	591	1	93	81	52	09	01	0	

ADDRESS		STREET NAME		TYPE		STATE	
NUMBER (INCL. HYPHEN)	SUITE	STREET NAME	TYPE	STATE			
1	1	WORLD TRADE CENTER					

DAMAGE		DETECTORS	
SPR. PERFORMANCE	FLAME	SMOKE	WATER
2	1	1	0

WORLD TRADE CENTER	
OCCUPANT (Driver)	ROOM/APT.

BUILDING		AREA	
STORIES	WIDTH	LENGTH	
99	0250	0250	

IF MOBILE PROPERTY		TYPE		YR.		MAKE		MODEL		V.I.N.		LICENSE		STATE	

UNIT		PTS.		243		249		255		261		261		273		279	

## OPERATIONS

## UNIT OPERATIONS cont:

- Lad. 10; Conducted primary search on floors 93, 94, 95, and 96. Unit split into 3 teams, located fire condition in electrical distribution closets, called for placement of hand lines, conducted opening up operations on 94th floor to check for fire extension, evacuated unknown member of civilians from floors 94 through 95 during initial operations,
- Lad. 1: Conducted primary search on 93rd floor, conducted secondary search on floors 94 to 101, proved to be negative, conducted survey on floors 81 through 92 for water damage to electrical closets due to hand-line use, negative.
- Lad. 15: Conducted primary and secondary search of floors 93 to 97, negative results,
- Lad. 8: Conducted examination of floors 92 to 101 for possible fire extension from electrical closets, negative, conducted secondary search on floors 94 and 95,
- Lad. 110: Performed secondary search of floors 96 through 110, negative results,

B.C.

ONE  
B.N.

D.C.

D.V.

Lawrence M. Byrnes  
TYPE FULL NAME1830  
TIME ARRIVED

TYPE FULL NAME

TIME ARRIVED



BF-24A (12/85) 5-4-10 10-1-10 10-1-10

### REPORT - ADDITIONAL DATA

#### STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT		DATE AND TIME				BOX LOCATION		INCIDENT NUMBER		BUILDING NO.		IGNITION		STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION					
MOBILE	PROPERTY	DAY	MONTH	YEAR	HOUR	MINUTE	SECTION	BOX	NUMBER	FLYING	FLYING	FLYING	FLYING	FLYING	FLYING	FLYING	FLYING	FLYING	FLYING				
6	11	19	01	18	27	1	2024	0562	00	3	41	23	43	61	1	591	1	93	81	52	09	04	0

ADDRESS		STREET NAME		TYPE	
NUMBER	(INCL. HYTHEN)	SUFFIX	STREET NAME	TYPE	SUFFIX
1	1		WORLD TRADE CENTER		

DAMAGE		DETECTORS	
PERFORMANCE	PERFORMANCE	PERFORMANCE	PERFORMANCE
2	1	1	1

BUILDING		AREA	
STORIES	WIDTH	LENGTH	
99	0250	0250	

OCCUPANT (Driver)		ROOM/APT.	
TYPE	YR.	MAKE	MODEL

IF MOBILE PROPERTY		LICENSE		STATE	
TYPE	YR.	MAKE	MODEL	V.I.N.	LICENSE

UNIT		PTS.	
UNIT	PTS.	UNIT	PTS.

**OPERATIONS**

## Unit Operations Cont:

- Lad. 6: Conducted secondary search 66 floors 105 to 110, negative results, removed (2) civilians from stalled elevators on the 38th and 101st floors, no injuries to civilians, or damage to building.
- Lad. 20: Conducted secondary search of floors 98, 99, and 100 negative results.
- Lad. 131: Conducted search of floors 105 to 110, with negative results.

Field Communications Unit: Set up Communications/Command Post in Basement, WYC Command Post,

Battalion 2 supervised Lobby Staging Area,

Battalions 4, 6, and 7 operated on various floors with units so assigned,

Division 3 operated as Operations OIC on various floors.

Division 1 operated at the Command Post as CIC.

<p>BC. <i>Lawrence M. Byrnes</i></p> <p>ONE B.N. 1830</p> <p>TYPE FULL NAME      TIME ARRIVED</p>	<p>DC. <i>Harold Meyers</i></p> <p>DIV. 8</p> <p>TYPE FULL NAME      TIME ARRIVED</p>
---	---



[illegible]



BF-24A (12/86) Fire Incident Report

### REPORT - ADDITIONAL DATA

#### STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT		DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER		BUILDING NO.		IGNITION		STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION		
MONTH	DAY	YEAR	HOUR	MINUTE	BOX NUMBER	BOX NUMBER	INCIDENT NUMBER	BUILDING NO.	COOR. ON AREA	COOR. INVOLVED	FIRE POINT	MATERIAL TYPE	MATERIAL TYPE	CONSTRUCTION	USE	STATUS	FLOOR COR.	OCCUPANCY	AREA CODE	
6	07	23	92	22	02	1	8093	0455	01	3	42	24	43	61	1	542	1	99	32	69

NUMBER (INCL. HYPHEN)		STREET NAME		TYPE	
57	68	WORLD TRADE CENTER		99	99

SPEC. PERFORMANCE		DAMAGE		DETECTORS	
SPR	PERFORMANCE	FLAME	SMOKE	PRESENT	TYPE
0	0	0	0	0	0

Port Authority NY/NJ

OCCUPANT (Driver)		ROOM/APT.	
94	103	114	123

IF MOBILE PROPERTY		MAKE		MODEL		V.I.N.		LICENSE		STATE	
TYPE	YRL	128	143	158	163	168	173	178	183	188	193
7	010	20	7	001	20	7	008	20	7	006	20
1	001	20	1000	2200	5	024	12	5	003	12	

UNIT		PTS.		243		249		255		261		267		273		279	
7	010	20	7	001	20	7	008	20	7	006	20	1	001	20	1000	2200	5
5	005	12	7	015	12	7	020	12									

#### OPERATIONS

Due to high electrical voltage (13000 volts confirmed, no water was used in initially, pending confirmation of power off at the electrical distribution panel.

Due to large floor area of the 5th floor-sub-basement, responding units were split into teams viz: Ladder Co. 10 and Engine 10 using the K13 stair to approach the fire area, Ladder 1 to use 2nd stairway-K12, to access the 5th sub. basement level. These units were tasked with pinpointing the fire area, an area of 200' x 400'.

A member of Ladder Co. 1 having found the fire situation in a very large power distribution panel, attempted to relay information to his officer. Prior to his transmission firefighter was struck by a shock blast generated by the involved panel. Ladder 1 firefighter knocked unconscious required a concerted effort to remove to a separate safe area.

#### Unit Operations.

Engine 10 - Operated on 5th sub level, stretched a 2 1/2" hand line from the standpipe, operated when power off confirmation received. Company

Engine 7 - Operated on fire floor with line off standpipe, operated under B.C. Demarest, Batt. 4, extinguished fire, used dry chemical extinguishers on fire.

DC. Lawrence M. Byrnes 1 B.N. 2205 DC. Div. 2

TYPE FULL NAME      TIME ARRIVED      TYPE FULL NAME      TIME ARRIVED

3F-24A (12/86) 5-10-40131-10000

## REPORT - ADDITIONAL DATA

### STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT				DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER		BUILDING NO.		EQUIP INVOLVED		HEAT FORM		MATERIAL TYPE		MATERIAL FORM		CONSTRUCTION		USE		STATUS		FLOOR CODE		OCCUPANCY		AREA OF ORIGIN		FIRE EXTENSION		REVISED REPORT	
MONTH	DAY	YEAR	HOUR	MINUTE	ROUNDS	BOX NUMBER	INCIDENT NUMBER	BUILDING NO.	EQUIP INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	USE	STATUS	FLOOR CODE	OCCUPANCY	AREA CODE	MANNER	OCCUPANCY	REVISED REPORT																
6	07	23	92	22	02	1	8093	0455	01	3	42	24	43	61	1	642	1	99	32	63	00	99	0														

  

ADDRESS		STREET NAME		TYPE	
NUMBER (INCL. HYPHEN)	SUFFIX	STREET NAME	TYPE	SUFFIX	DIRECTION
57		WORLD TRADE CENTER			

  

DAMAGE				DETECTORS			
SPK. PERFORMANCE	% DAMAGED	FLAME	SMOKE	WATER	PRESENT	TYPE	POWER
0	0	0	0	0	0	0	0

  

OCCUPANT (Driver)		ROOM/APT.	
NAME	ADDRESS	ROOM/APT.	ADDRESS
Port Authority NY/NJ	5th sub. base.	99	0200 0400

  

IF MOBILE PROPERTY		TYPE		YR.		MAKE		MODEL		V.I.N.		LICENSE		STATE	
TYPE	YR.	MAKE	MODEL	V.I.N.	LICENSE	STATE									
189	195	201	207	213	219	225									
237	UNIT	PTS.	243	249	255	261									
267			273	279											

## OPERATIONS

Operation cont:

Engine 6 - Assisted Eng 7 in stretch of and operation of a 2½" line into fire area, performed search of area, overhauled as necessary,

Engine 55 - Operated with and relieved Eng. 7 on hand line on fire floor, took up hose lines,

Engine 4 - Under supervision of BC. Turnes, B2, transported injured member of Lad. 1 to ambulance on the B1 level of the fire building, relieved Eng. 10 on a hand line, overhauled, took up hand line,

Engine 24 - Transported Air Cylinders fire area under supervision of BC. Jackson,

Engine 3 - Ordered to and did provide air cylinders to operating units of the B5 level.

Engin

Engine 5 - Operated as Command Post Company

Stood Fast - Eng9Sat1, Engines 15, 28. 33, 34, 207/Maxi, 284/Sat.3,

BC <i>Lawrence M. Byrnes</i>	1	D.C.	DIV.	3
Lawrence M. Byrnes	2205			
TYPE FULL NAME	TIME ARRIVED	TYPE FULL NAME	TIME ARRIVED	

CRC 226

BF-24A (12/86) **REPORT — ADDITIONAL DATA**  
**STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY**

TYPE REPORT				DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER		BUILDING NO.		EQUIP. INVOLVED		IGNITION		STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION		REVISED REPORT	
MONTH	DAY	YEAR	MINUTE	BOROUGH	BOX NUMBER	INCIDENT NUMBER	BUILDING NO.	EQUIP. INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	USE	STATUS	FLOOR CODE	OCCUPANCY	AREA CODE	MANNER	OCCUPANCY	REVISED REPORT					
6	07	23	92	2202	1	8093	0455	01	3	42	24	43	61	1	892	1	99	32	63	00	99	0			

BORO		NUMBER (INCL. HYPHEN)		SUFFIX		PREFIX		DIRECT		STREET NAME		TYPE		SUFFIX DIRECTION	
											WORLD TRADE CENTER				

SPK. PERFORMANCE		DAMAGE		DETECTORS	
% DAMAGED	FLAME	SMOKE	WATER	PRESENT	TYPE
0	0	0	0	0	0

OCCUPANT (Driver)		ROOM/APT.	
Port Authority NY/NJ	5th sub base.		

IF MOBILE PROPERTY		TYPE		YR.		MAKE		MODEL		V.I.N.		LICENSE		STATE	

UNIT		PTS.		243		249		255		261		267		273		279	

**OPERATIONS**

Operations cont:

Ladder 1- Operated at the B5 level, conducted search to pinpoint the fire area, conducted a primary search for possible employees trapped. FF. Amodio injured in explosion of 13000 volt distribution panel,

Ladder 10- Performed a search of the B5 level to identify the fire area, and searched for possible trapped employees, gathered and used dry chemical extinguishers on the fire prior to power removal, overhauled as required,

Ladder 8- Performed a secondary search of the fire area, used dry chemical extinguishers, assisted in overhauling,

Ladder 6- Placed and used portable exhaust fans in stairwells to effect ventilation, took up,

Ladder 15- Supplied spare SCBA cylinders to staging area,

Ladder 20- Supplied spare SCBA cylinders to staging area,

B.C. Lawrence M. Byrnes 1 B.N. D.C. 4 DIV. 4  
 TYPE FULL NAME 2205 TIME ARRIVED TYPE FULL NAME TIME ARRIVED  
 CRC 228

BF-24A (12/86) **REPORT - ADDITIONAL DATA**  
**STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY**

TYPE REPORT		DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER	BUILDING NO.	EQUIP INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	STATUS	STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION			
MONTH	DAY	YEAR	HOUR	MINUTE	BOROUGH	BOX NUMBER	FLOOR CODE									OCCUPANCY	AREA CODE	MANNER	OCCUPANCY	REVISOR			
6	07	23	92	22	02	1	8093	0455	01	3	42	24	43	61	1	642	1	99	63	63	00	99	0

BORO	NUMBER (INCL. HYPHEN)	SUFFIX	PREFIX	DIRECT	STREET NAME	TYPE	SUFFIX	DIRECTION
1					WORLD TRADE CENTER			

SPK. PERFORMANCE		DAMAGE		DETECTORS	
% DAMAGED	FLAME	SMOKE	WATER	PRESENT	TYPE
0	0	0	0	0	0

OCCUPANT (Driver)		ROOM/APT.	
Podt Authority NY/NJ	5th sub. base.		

IF MOBILE PROPERTY	TYPE	YR.	128	MAKE	113	MODEL	158	V.I.N.	225	LICENSE	231	STATE

UNIT	PTS.	243	249	255	261	267	273	279

**OPERATIONS**

Operation cont:

Rescue 1- Company split to perform several operations-

1. Assisted in administering first aid to Injured firefighter,
2. Conducted secondary search of fire area, negative,
3. Used Thermal Camera to check for possible fire extension,

Rescue 2- Assisted (2) civilian electricians (with SCBA's) to confirm power off in electrical panel, relayed confirmation of power off to Command Post. Assisted in hand line operation, assisted in VES of fire floor.

Chief Officers present:

DAC R. Palmer, CW Duty  
 DC. R. Manson Div. 1,  
 B.C. L. Byrnes Batt. 1,  
 B.C. W. Demarest Batt. 4,  
 B.C. R. Turner, Batt. 2,  
 B.C. Jackson Batt. 33,

B.C. Costa Batt. 7,  
 B.C. Miccio Batt. 6,  
 B.C. Nardone Batt. 9,  
 B.C. Ross Batt. 31.

BC. Lawrence M. Byrnes

1  
B.N.

DC.

DIV.

PAK

CRC 228

TYPE FULL NAME

TIME ARRIVED

TYPE FULL NAME

TIME ARRIVED



BF-24A (12/85) REPORT — ADDITIONAL DATA

STRUCTURAL FIRE TRANSPORTATION FIRE NON STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT		DATE AND TIME		BOX LOCATION		ALARM RECEIVED		BOX NUMBER		ADDITIONAL		CAUSE OF FIRE		MATERIAL TYPE		STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION	
MONTH	DAY	YEAR	HOUR	MINUTE	BOX	LOCATION	ALARM	BOX	NUMBER	ADDITIONAL	CAUSE OF FIRE	MATERIAL TYPE	STRUCTURE	AREA OF ORIGIN	FIRE EXTENSION						
6	23	92	00	02	1808B	0455	01	342	24	48	51	1	54	1	99	63	53	00	99	0	

NUMBER (INCL. HYPHEN)		STREET NAME		TYPE	
1	1	WORLD TRADE CENTER			

DAMAGE		DETECTORS	
% DAMAGED	PLANE	SMOKE	WATER
0	0	0	0

PERFORMANCE		TYPE		POWER	
0	0	0	0	0	0

Port Authority NY/NJ

OCCUPANT (Driver)

ROOM/APT.

IF MOBILE PROPERTY

TYPE	VIN.	MAKE	MODEL	VIN.	LICENSE	STATE

UNIT PTS.

237 243 249 255 261 267 273 279

## OPERATIONS

Operations cont:

Greater alarms transmitted due to magnitude of fire area involved, potential for smoke and heat problems, numbers of employees in building need to supply and relieve operating personnel.

Injuries: FF. Amodio, Lad. 1, concussion, removed to Beckman Hosp.,  
 FF. Cancel, Lad 10, granted ML.,  
 FF. Hanson, Lad. 10, granted ML.,  
 FF. Selletti, Lad. 10, Granted ML.

Note: Staff and employees of the New York Port Authority provided excellent guidance and assistance. Help provided included mechanical, ventilation, electrical distribution disciplines which made for a much easier fire ground operation.

B.C. Lawrence M. Byrnes 1 R.M. DC. DIV. 1

TYPE FULL NAME TIME ARRIVED TYPE FULL NAME TIME ARRIVED

2005

PAG 2 OF 2



F-24A (12/86) 15M2-861531-PO29-N

## REPORT -- ADDITIONAL DATA

## STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT				DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER		BUILDING NO.		IGNITION				STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION																																
MONTH	DAY	YEAR	HOUR	MINUTE	BOROUGH	BOX NUMBER	INCIDENT NUMBER	BUILDING NO.	COND. ON ARRIVAL	EQUIP. INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	USE	STATUS	FLOOR CODE	OCCUPANCY	AREA CODE	MANNER	OCCUPANCY	REVISED REPORT																																
6	11	10	9	23	01	1	8084	0648	00																																													
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1	1								WORLD TRADE CENTER																																													
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UNIT		PTS.																																																				

## OPERATIONS

E-7 Stretched precautionary line from standpipe.  
 F.S.D. for World Trade Center - Mr. Mike Hurly.  
 O.E.M. Lt. Wilson.

F.M. Kregler #361 responded on BFI's own knowledge of prior suspicious activity. Job #11201.

B.C. John M. Akerman 01 B.N. 23:07  
 TYPE FULL NAME TIME ARRIVED  
 D.C. \_\_\_\_\_ DIV. \_\_\_\_\_  
 TYPE FULL NAME TIME ARRIVED  
 PAGE 2 OF

## Attachment G-A.5

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### Significant fire incidents occurring in WTC 2 (3)

Significant Fire	Incident Date	Fire Location	# Sprinklers Activated	# Standpipes Activated	Cause of Fire	Material Ignited
1	5/19/75	Floor 32	-	3	Incendiary	Trash/waste
2	4/12/77	Duct work over grill in restaurant on floor 107	2		None listed	Duct work
3	3/22/93	Fan motor room on floor 108	2		Mechanical failure	Not classified



INCIDENT RECORDS OFF ONLY		DATE AND TIME ALARM RECEIVED										DURATION OF ALARM		LOCATION		INCIDENT		REPORT	
TYPE	REPORT	MONTH	DAY	YEAR	CONTO	HOURS	MINUTE	SECONDS	HOURS	MINUTE	SECONDS	LOCATION	LOCATION	INCIDENT	INCIDENT	REPORT	REPORT		
1	1	05	19	75	1	21	38	03	10	1	2	1	1	0007	0007	0003	0110	0110	
<p>1.1- Made search of floor structure. AREA- FIRE ORIGIN</p> <p>1.10- (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec)</p> <p>1.8- (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec) (Spec)</p> <p>1.1- Supervised by 32nd Precinct Authority, Patrolman #1191</p>																			

Upon arrival was informed by Port Authority Police of smoke condition on 32 floor and occupants reported trapped on 31 and 32 floors. Established command post and ordered Engine 6 (28) and Engine 7 to proceed to fire area and operate in separate stairways. Ladders 10 and 11 to transmit immediate report of fire conditions and to make search for occupants and perform necessary duties. Battalion 4 to supervise operations in fire area. Division 1 assumed command upon arrival. Ordered one additional engine and ladder units. Then transmitted 2nd alarm upon receipt of report from fire area of "heavy fire and smoke condition". Battalion 1 with Engine 10 and Ladder 8 ordered to operate in third stairway. Additional units put to work as required and to relieve operating units. Fire area involved core area throughout and was confined to same.

Four minor fires in previous two hours were suspected arson and were each reported via dispatcher to fire marshal and same ordered to respond.

E.6(28) Stretched line to 32FL via stairway B. Operated to extinguish major body of fire. Then relieved by E.7.

E-7- Assisted E.6 in stretching and advancing line. Then stretched 2nd line to 3rd fl via stairway and operated to extinguish fire.

S.C. *Charles J. Votruba* S.N. 2140 O.C. and ORIS called 1st Regt 7<sup>th</sup> Div. (OVER)  
Charles J. Votruba Roger Rodriguez DIV. PAGE

TYPE FULL NAME	TIME OF ARRIVAL	TYPE FULL NAME	TIME OF ARRIVAL
ST. M. ...	...	...	...



REPORT	LOCATION	DATE AND TIME	ALARM RECEIVED	INCIDENT	CONT'D
E.27	Stretched line to 32nd fl. Operated to extinguish remaining fire. assisted in search. Overhauled fire area.				
L.10	Forced door to 32nd fl. stairway "C". Operated house hose line to assist in making search. Then operated on 32nd fl. continuing search. Made examination. Then assisted in overhauling. Then relieved by L.1.				
L.1	Made search of floors 33, 34, and 35. Then made examination at 33rd fl. for extension off fire.				
E.10 (Spec. called)	Ordered to stand fast at 31st fl. Then relieved on hose lines 32nd fl. to assist in overhauling. Then took up lines of E.6 & 7.				
L.8 (Spec. called)	Assisted in making secondary search of office occupancies 32nd fl. Then relieved L.10 overhauling fire.				
Batt.4	Supervised units initially operating on the 32nd fl.				
Batt.1	Ordered to assist in supervision in fire area. Then relieved Batt.4 and supervised secondary search, examination and overhauling.				
E.9	Ordered to stand fast. Then made search of 44th fl.				
E.55	Relieved operating units on the 32nd fl. where necessary.				
E.24	Made examination 20th, 40th and 60th fls. (2 WTC)				
E.17	Made search examination 20, 40th, 60th fls (1 WTC)				
L.15	Made search of perimeter office occupancies 32nd fl. Then made secondary search and examination of 44th fl. Then made final examination of 31st fl. core area.				
Batt.32	Supervised examination in #1 WTC. Then supervised examination in #2 WTC 44th and 60th fls.				
Mar.1	Stretched line to gate and ordered to stand fast.				
Res.1	Administered Administered oxygen to Fr. O'Neill E.7. Then made examination for fire extension around perimeter of fire area and overhauled 31st fl.				
Superpumper System	Superpumper and Sat. 2 ordered to return to qtr. Sat. 1 ordered to stand fast at hook up site then to qtr/relieve sat. 1 of sat. 1 bagged 30 (32) 30.3				
FCU	Established Field Hdqts. monitored HT circuits. Transmitted Progress reports. Maintained central band.				
MSU	Serviced Units, Exchanged 30 cylinders.				
Time of Special Calls:	2150 hrs.				
2nd alarm:	2154 hrs.				
under control:	2257 hrs.				
Chief Officers Operating:	BC Votruba, Batt. 1				
	BG Bagley, Bn				

REPORT - STRUCTURAL FIRE																					
FOR FIRE RECORDS USE ONLY		DATE AND TIME ALARM RECEIVED				DURATION OF INCIDENT		LOCATION			REPORT										
		TYPE REPORT	MONTH	DAY	YEAR	CD. NO.	HOUR	MINUTE	HOURS	MINUTES			HOW REPORTED	INITIAL ALARM	HIGHEST ALARM	BOROUGH	BOX NUMBER	ADJUT. COMPANY	BUCKET NUMBER	REPORT NUMBER	FILE NO.
		1	04	12	77	1	1315	00	30	1	1	0	1	0070	5	006	0113	0058	01	999	

  

AIDED AND CASUALTIES				RESP.	EXTINGUISHMENT	INVESTIGATION	STRUCTURE	AREA FIRE ORIGIN
CIVILIANS								
EVACUATED	FIRE AID	INJURED	DECEASED	PROPERTY	CAUSE	CONSTRUCT	USE	STATUS
00	00	00	00	00	00	00	00	00

  

ADDRESS		NUMBER		STREET		BOROUGH	
2		World Trade Center		Man			

  

BUILDING		STORIES		AREA	
110		400 x 400			

  

NAME OF OCCUPANT		ROOM/APT. NO.	
Mr. Sarnelli FSD			

  

TYPE		NO.		SECT.		PIS.	
7		001		0		05	

## OPERATIONS

On arrival found fire to be extinguished prior to arrival ;

Fire was located in duct work over grills in in reataurant on 107 th floor, Bn. 1 notified dispatcher to notify board of Health of possible food contamination from heat smoke and gases in restaurant.

E. 6 Took rolled ups to 107 floor, stretched line and stood fast.

L. 1 Made necessary search and investigation.

F.P. 2 on scene replaced two sprinkler heads.

by William M. Feehan 1  
B.N. 1

ABC William M. Feehan 1318  
TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME



[illegible]

F-24A (12/86) 15H2-661531-R02B-N

## REPORT — ADDITIONAL DATA

## STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT		DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER	BUILDING NO.	IGNITION				STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION		REVISED REPORT																																			
MONTH	DAY	YEAR	HOUR	MINUTE	BOROUGH	BOX NUMBER	EQUIP. INVOLVED			HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	USE	STATUS	FLOOR CODE	OCCUPANCY	AREA CODE	MANNER		OCCUPANCY																																		
6	05	22	95	0839	1	8087	0058	00																																															
<table border="1"> <thead> <tr> <th colspan="2">ADDRESS</th> <th colspan="2">STREET NAME</th> <th>TYPE</th> <th>SUFF. DIRECTION</th> </tr> </thead> <tbody> <tr> <td>2</td> <td></td> <td>WTC</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																				ADDRESS		STREET NAME		TYPE	SUFF. DIRECTION	2		WTC																											
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2		WTC																																																					
<table border="1"> <thead> <tr> <th colspan="2">SPK. PERFORMANCE</th> <th colspan="2">DAMAGE</th> <th colspan="2">DETECTORS</th> </tr> </thead> <tbody> <tr> <td>% DAMAGED</td> <td>FLAME</td> <td>SMOKE</td> <td>WATER</td> <td>PRESENT</td> <td>TYPE</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>POWER</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>PERFORMANCE</td> </tr> </tbody> </table>																				SPK. PERFORMANCE		DAMAGE		DETECTORS		% DAMAGED	FLAME	SMOKE	WATER	PRESENT	TYPE						POWER						PERFORMANCE												
SPK. PERFORMANCE		DAMAGE		DETECTORS																																																			
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UNIT		PTS		243		249		255		261		261		273		279																																							

## OPERATIONS

E7-Assisted E10 in stretching line, then up.  
L1-Assisted L10 in search, then up.

1

BC. Gordon Symon 1st DC. \_\_\_\_\_ DIV. \_\_\_\_\_

TYPE FULL NAME Gordon Symon TIME ARRIVED 0844 TYPE FULL NAME \_\_\_\_\_ TIME ARRIVED \_\_\_\_\_

PAGE 2 OF 2

## **Attachment G-A.6.1**

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Additional fire incidents involving the deployment of standpipe lines in WTC 1 and WTC 2 –

- Fires involving the use of one standpipe line and the activation of one sprinkler (4 in total)

## REPORT — STRUCTURAL FIRE

BF 24 (1/80)

TYPE REPORT		INCIDENT LOCATION		DATE AND TIME		ALARM RECEIVED		INCIDENT DURATION		BOX LOCATION		REPORT		COS. RESP.					
COMMUNITY BOARD	ADMON. COMPANY	BLOCK NUMBER	MONTH	YEAR	HOUR	MINUTE	HOURS	MINUTES	INITIAL ALARM	HIGHEST ALARM	BOX NUMBER	REPORT NUMBER	BATTALION	ENGINE NUMBER	LADDER				
1	01	5	006	0113	09	29	81	0904	01	10	6	1	1	8087	0287	01	531	03	3

  

AIDED AND CASUALTIES		EXTINGUISHMENT		MATERIAL TYPE		MATERIAL FORM		CONSTRUCT.		STATUS		FLOOR CODE		RM. AREA CODE		OCCUPANCY		MANNER OF		OCCUPANCY'S		FIRE EXTENSION		SPECIAL USE	
EVACUATED	FIRST AID	INJURED	KILLED	UNINJURED	CODE	SPRINKLER	STANDPIPE	TEAM USED	EQUIP INVOLVED	HEAT FORM	USE	CONSTRUCT.	STATUS	CONTS. DMC	FLOOR CODE	RM. AREA CODE	OCCUPANCY	MANNER OF	OCCUPANCY'S	NO. BLDGS.	WITHIN BLDG.	NO. BLDGS.	SMOKE DETECTORS	SPECIAL USE	
00	00	00	00	01	5	01	01	3	98	00	67	44	21	1	15	1	1	1	1	1	1	1	1	1	1

  

ADDRESS		STREET NAME		TYPE		BUILDING		AREA		LEFT IN CHARGE	
NUMBER	STREET	STREET NAME	TYPE	STREET NAME	TYPE	BUILDING	AREA	LEFT IN CHARGE	LEFT IN CHARGE	LEFT IN CHARGE	LEFT IN CHARGE
2	World Trade Center	World Trade Center	1	World Trade Center	1	137	210x210	Mr. Barnelli (FSD)	Mr. Barnelli (FSD)	Mr. Barnelli (FSD)	Mr. Barnelli (FSD)

  

EQUIPMENT INVOLVED IN IGNITION		EQUIPMENT INVOLVED IN EXTINGUISHMENT		EQUIPMENT INVOLVED IN RESCUE	
YR.	MAKE	YR.	MAKE	YR.	MAKE
134	134	134	134	134	134

  

UNIT		PTS.		ITEM		YR.		MAKE		MODEL		S/N		POWER	
UNIT	PTS.	UNIT	PTS.	UNIT	PTS.	UNIT	PTS.	UNIT	PTS.	UNIT	PTS.	UNIT	PTS.	UNIT	PTS.
5	010	10	5	006	05	7	001	10	7	015	10	212	217	188	187

## OPERATIONS

Responded to alarm box 8087. Upon arrival found light fire, medium smoke conditions in storage room (office records) at above address and location. Transmitted signal 10-75. Fire had activated 1 sprinkler head. Fire was confined to and extinguished in said room.

Eng. 10- Stretched standpipe line, extinguished fire, washed down.

Eng. 6- Relieved Eng. 10 on line.

Lad. 1- Searched, found fire, shut down sprinkler system, reactivated system, checked for extension, overhauled.

B.C.		BN.		D.C.		DIV.		PAGE	
B.C.		BN.		D.C.		DIV.		PAGE	
								1 OF 2	

ADMINISTRATIVE COMPANY





[illegible]



BF-24 (12/88)

## REPORT — STRUCTURAL FIRE

INCIDENT LOCATION				DATE AND TIME				INCIDENT DURATION				HOW REPORTED				BOX LOCATION				REPORT				COMPANIES RESPONDING				HAZ MAT				SPECIAL USE															
COMMUNITY				MONTH				YEAR				HOURS				MINUTES				ALARM				BOX NUMBER				INCIDENT NUMBER				FLOOR NUMBER				CLASS				AMOUNT				REVISION REPORT			
1				01 5 010				03 24 91				2104 01 25 18				1 7 1				8084				0332 0406 01				380 07 05 05				000 0															
AIDED AND CASUALTIES				EXTIN. GUSHMEN				IGNITION				STRUCTURE				FIRE ORIGIN				FIRE EXTENSION				DAMAGE				DETECTORS				FOR INVESTIGATION															
CIVILIANS				KILLED				WOUNDED				KILLED				WOUNDED				KILLED				WOUNDED				KILLED				WOUNDED				KILLED				WOUNDED							
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## **Attachment G-A.6.2**

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Additional fire incidents involving the deployment of standpipe lines in WTC 1 and WTC 2 –

- Fires involving the use of one standpipe line (27 in total)

DATE AND TIME ALARM RECEIVED										LOCATION										REPORT	
										ALARM / INCIDENT											
ALARM NO.	DAY	YEAR	HOUR	MINUTE	SECONDS	MONTH	DAY	YEAR	ALARM NO.	ALARM NO.	ALARM NO.	ALARM NO.	ALARM NO.	ALARM NO.	ALARM NO.	ALARM NO.	ALARM NO.	ALARM NO.	ALARM NO.		
1	05	24	73	03	10	01	20	21	1	1	0067	7	010	0033	0068	01	365				

CIVILIANS										EXTINGUISHMENT										INVESTIGATION										STRUCTURE										AREA FIRE ORIGIN									
INJURED	DEAD	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY	PROPERTY																														
00	00	00	00	00	00	05	2	6	00	01	0	64																																					

ADDRESS 1 World Trade Center Man, Man  
NUMBER STREET BOROUGH

BUILDING 110 570 x 970  
STORIES (Below Grade) AREA

World Trade Center  
NAME OF OCCUPANT

Mickey Seebek -  
Superv. Engr.

LEFT IN CHARGE  
PA - Lt. Newman #21

5	006	0	10	5	007	0	02	5	027	0	02	5	010	0	02	7	010	0	10	7	001	0	10
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5 TYPE NO. SECT. FIS

### OPERATIONS

On arrival found fire in elevator car (J3) - B2 level, -J-4 area - Heavy smoke condition in adjacent areas, B-2 level. Light smoke cond. in Concourse, on 19th, 38th & 78th floors and various other floors. Fire was confined and extinguished with 1 house line and one F.D. hand line from standpipe. Areas involved with smoke were searched, occupant assisted where required. Operations as follows:  
E6 - stretch line from standpipe J-4 area, ext. fire in elev. & shaft.  
E7 - assist E6 in stretching handline.  
E10 - made search upper floors - 77th to 79th (light smoke cond.)  
E27 - made search upper floors - 38th fl. & vic.  
L10(L18) - report to CP - search & examination of concourse area.  
L1 - forced elev. door B-2 level, examine aar, overhaul.  
B2 - supervise operations of E6 & L1 opening elev. car door & ext. fire B-2 ~~IVV~~ level (284)

BC Frank L. Picariello 0312 BN. DC John J. Hart 1 PAGE  
TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME TIME OF ARRIVAL  
DIV / OF /



TYPE	DATE AND TIME				ALARM	LOCATION				REPORT							
	MONTH	DAY	YEAR	HOUR		MINUTE	ALARM	INCIDENT									
1	06	15	73	2015	00	45	2	1	0	1	0067	7	010	0033	0104	02	325

AIDED AND CASUALTIES				RESP.	EXTINGUISHMENT	INVESTIGATION	STRUCTURE	AREA FIRE ORIGIN
CIVILIANS								
EVACUATED	INJURED	DECEASED	UNIDENTIFIED	REASON	CAUSE	FILE	CONSTRUCT	STATUS
00	00	00	00	01	05	2	9	00
01	05	2	9	00	01	1	64	
1	15	1	1	1	06	57	50	00

ADDRESS 1 World Trade Center Manhattan  
NUMBER STREET BOROUGH

Unoccupied 6518  
NAME OF OCCUPANT ROOM NO.

BUILDING 110 200x200  
STORIES AREA

Security Guards  
LEFT IN CHARGE

5	006	0	10	7	010	0	10										

C  
O  
M  
P  
A  
N  
I  
E  
S  
TYPE NO DIST FTS

#### OPERATIONS

Upon arrival found fire in rubbish in room 6518 On the 65th. floor, fire confined and extinguished. Fire was in an unoccupied office of bldg E.6: Stretched line off standpipe extinguished. fire, had taken rolled ups to 65th. floor.

L.10: Overhauled, made necessary examination, ventilated.

On Scene: Fire Patrol #2.

Injured Member: Fr. 1st. Vincent Segretto #9050 Lad. 10, twist right knee.

Dr. Schwartz notified. No time lost.

Louis Pike 2 John J. Hart 1  
TYPE FULL NAME BN. DC. TYPE FULL NAME DIV. PAGE  
2017 2626  
TIME OF ARRIVAL TIME OF ARRIVAL

FIRE RECORDS

REPORT - STRUCTURAL FIRE																
FOR FIRE RECORDS USE ONLY		DATE AND TIME ALARM RECEIVED				DURATION OF INCIDENT		HOW REPORTED		ALARM		LOCATION		REPORT		
		MONTH	DAY	YEAR	CD. NO.	HOUR	MINUTE	HOURS	MINUTES	INITIAL ALARM	HIGHEST ALARM	BOROUGH	ADM. NUMBER	ADM. COMPANY	ROOM NUMBER	REPORT NUMBER
1	0	1	2	7	1	90	01	1	00	70	010	003	0096	01	99	

  

AIDED AND CASUALTIES				RESP.	EXTINGUISH- MENT	INVEST- IGATION	STRUCTURE	AREA FIRE ORIGIN
CIVILIANS	EVA. AID	INJURED	DECEASED	PRO SEC. MARINE	LOADING	CAUSE	STATUS	ROOM OF ORIGIN
00	00	00	00	01	00	01	06	01

  

ADDRESS				PORT AUTHORITY	
NUMBER	STREET	BOROUGH	NAME OF OCCUPANT	ROOM/APT. NO.	LEFT IN CHARGE
110	200x200		Mr. Sarnelli (Fire Safety Dir)		

  

OPERATIONS									
5	006	5	007	20	5	027	12	2	010

Received Alarm Class 3-70-4,  
On Arrival proceeded to the 5th. floor, smoke reported there and floors above.  
E-6 took in rolled-up lengths and masks, proceeded to check out 9th and 10th. floors, then checked 21st, 22nd, and 61st. floors.  
E-7 found fire, rubbish burning on foyer of 5th. floor, extinguished with line taken from standpipe.  
L-10- examined and overhauled, checked 14th to 17th. floors for smoke.  
L-1- checked following floors, 9, 10, 11, 61st and 69th. assisted in crowd control.  
E-27- checked 10th and 11th. floor and assisted in crowd control.  
L-8- checked the 80th thru 99th. floor.  
L-15- checked 100th thru 110th. floors.  
Deputy chief Hart was on scene.  
BC. Whitney supervised following Cos. L-1-, L-10, E-7, E-27 ( Batt. 4)  
Sgt. Keighan of FF-#2 was on scene.  
Fire was also found on 49th. Floor, Extinguished on arrival, found and checked out by E-7. Fire Marshall Peritti Called, because of suspicious fire.

*Charles M. Blach* 1  
Charles M. Blach 0907 John J. Hart  
TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME TIME OF ARRIVAL  
DIV. PAGE  
OF

(6/72) 1-60-1020 7417-07 **REPORT - STRUCTURAL FIRE**

FOR FIRE RECORDS USE ONLY		DATE AND TIME ALARM RECEIVED				DURATION OF INCIDENT		HOW REPORTED		ALARM		LOCATION		REPORT					
TYPE	REPORT	MONTH	DAY	YEAR	CO. NO.	HOUR	MINUTE	HOURS	MINUTES	INITIAL ALARM	HIGHEST ALARM	BOROUGH	BOX NUMBER	ADMIN. COMPANY	BLOCK NUMBER	REPORT NUMBER	FILING	BATTALION	BADGE NUMBER
1	10	09	75	1	0308	00	25	4	1	01	0070	7	010	0033	0181	01	445		

AIDED AND CASUALTIES				RESP.	EXTINGUISHMENT	INVESTIGATION	STRUCTURE	AREA FIRE ORIGIN	
CIVILIANS									
EVACUATED	FIRST AID	INJURED	KILLED	UNIFORMED INJURED	ENG. CO. MINUTE	LADDERS	CODE	NO. SPRINKLERS OPEN	STATUS
00	00	00	00	00	03	2	6	00	01

CAUSE	FIRE	WARRANT	CONSTRUCT	USE	STATUS	PISTOL TO BOMB	WARRANT TO BOMB	FLOOR CODE	ROOM OR AREA CODE	COMPANY	MANAGER OF EXTENSION
2	1	15	0	0	0	0	0	0	0	0	0

ADDRESS **# 2 World Trade Center** **Manhattan**  
 NUMBER **110** STREET **250x250**  
 BUILDING **110** BOROUGH **250x250**  
 (Second Card) STORIES AREA

Port of N.Y. Authority  
 NAME OF OCCUPANT **Fire Safety Director** ROOM/API. NO.  
 LEFT IN CHARGE

COMPANY	NO.	SECT.	PTS.
5	006	0	05

OPERATIONS

Responded to Class 3-70-4

Upon arrival found fire in planter on 32 floor there confined and ~~extinguished~~ extinguished as follows.

E.6 - Carry in rolled up ladders, hook up to S/P outlet, stretch line and operate on and extinguish fire and necessary wash down.

L.10 - Make necessary examination of 32 and 33 floors and overhaul burnt debris on 32 floor.

Signed Fergus J. McDermott #2 1st D.C. BN. DIV. PAGE  
 Fergus J. McDermott #2 TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME TIME OF ARRIVAL

FOR FIRE RECORDS USE ONLY		DATE AND TIME ALARM RECEIVED										DURATION OF INCIDENT		HOW REPORTED				LOCATION				REPORT	
TYPE REPORT		MONTH	DAY	YEAR	CD NO.	HOUR	MINUTE	HOURS	MINUTES	INITIAL ALARM	HIGHEST ALARM	BOROUGH	ALARM	INCIDENT	REPORT	BOX NUMBER	ADMIN. COMPANY	BLOCK NUMBER	REPORT NUMBER	FILING BATTALION	BLOCK NUMBER		
1	03	09	76	1	1603	00	30	4	1	0	1	0070	5	006	0010	0124	04	880					

  

AIDED AND CASUALTIES										RESP.	EXTINGUISHMENT	INVESTIGATION	STRUCTURE	AREA FIRE ORIGIN									
CIVILIANS					ENCL. SO. MARINE					LADDERS	NO SPRINKLES OPEN	STANDPIPE TESTS USED	CAUSE	FIRE MARSHAL	CONSTRUCT	USE	STATUS	STATUS TO BLDG	STATUS TO BLDG	FLOOR CODE	FLOOR OR AREA CODE	OCCUPANCY	MANNER OF EXTENSION
00	00	00	00	00	03	2	6	00	01	1	64			1	15	1	1	0	00	10	50	00	

  

ADDRESS **1 World Trade Center** **Man.**  
 BUILDING **110** **204 x 204**  
 (Second Card) **204** **204**  
 AREA

NAME OF OCCUPANT **Various**  
 LEFT IN CHARGE **Lt. John Elliott PAPD**  
 ROOM/APT. NO.

COMP	NO.	SECT.	PIS.	NO.	SECT.	PIS.	NO.	SECT.	PIS.	NO.	SECT.	PIS.	NO.	SECT.	PIS.
5	055	0	10	7	008	0	05								

OPERATIONS

On arrival found light fire condition in rubbish piled against wall in main concourse which had caused scorching to said wall.

E 55 Stretched line from standpipe outlet and extinguished fire. washed down.

L 8 Examined for extension and unharmed.

*Tanley Hirschfield*  
 TYPE FULL NAME **Tanley Hirschfield** 1608  
 TIME OF ARRIVAL **1608** D.C. **4**  
 TYPE FULL NAME **Tanley Hirschfield** 1608  
 TIME OF ARRIVAL **1608** D.C. **4**  
 DIV. **1** PAGE **1**  
 TIME OF ARRIVAL **1608**

ADMINISTRATIVE COMPANY



- E. 7 Responded to 79 floor stretched line from standpipe, extinguished fire
- E. 6 Stretched line and stood fast in fire control center area.
- E. 24 Stretched line and stood fast in stairway in lobby area.
- L. 1 Performed necessary search, ventilation, and over haul on fire floor.
- L. 8 Stood fast with tools and masks in stairway at lobby.

Injured P.O. Keely (port Authority Police) # 1501 removed to Beekman Hospital  
in public ambulance. Apparent, smoke inhalation.

~~Theodore A. Campbell~~

1620  
TIME OF ARRIVAL

TYPE FULL NAME

DIV.        PAGE        OF

G-77

FOR FIRE RECORDS USE ONLY				DATE AND TIME ALARM RECEIVED				DURATION OF INCIDENT				LOCATION				REPORT							
TYPE REPORT				MONTH	DAY	YEAR	CO. NO.	HOUR	MINUTE	HOURS	MINUTES	HOW REPORTED	INITIAL ALARM	HIGHEST ALARM	BOROUGH	SOFT NUMBER	DMNY COMPANY	INCIDENT	REPORT NUMBER	ENGINE	BATTALION	SQUAD NUMBER	
1				06	24	77	1	2205	01	55	4	0	7	1	0070	5	006	0113	0158	01	531		

  

AIDED AND CASUALTIES				RESP.	EXTINGUISHMENT	INVESTIGATION	STRUCTURE	AREA FIRE ORIGIN															
CIVILIANS																							
EVACUATED	FIRST AID	INJURED	KILLED	UNIFORMED INJURED	ENG. SO. MARINE	LADDERS	CODE	NO. SPRINKLERS OPEN	TRANSFORMER	CAUSE	FIRE MATERIAL	CONSTRUCT.	USE	STATUS	STATUS TO FLOOR	STATUS TO FLOOR	STATUS TO FLOOR	STATUS TO FLOOR	STATUS TO FLOOR	STATUS TO FLOOR	STATUS TO FLOOR	STATUS TO FLOOR	STATUS TO FLOOR
00	03	07	00	00	03	4	0	00	01	1	62	1	15	1	1	0	46	31	50	00			

  

ADDRESS 1 World Trade Ctr Man Port of N.Y. Authority hallw  
NUMBER STREET BOROUGH NAME OF OCCUPANT ROOM/APT. NO.

BUILDING 110 250 x250 Richard Hintzen(Fire Safety D  
(Second Card) STORIES AREA LEFT IN CHARGE

  

5	006	0	20	5	007	0	12	5	024	0	12	1	001	0	10	7	001	0	20	7	008	0	20
7	015	0	10																				

COMPANIES

## OPERATIONS

Responded to 3-70-2(Manual Alarm)

While responding Batt.1 notified via dept. radio of special call additional Ladder Co(L.15) due to report of fire 46th fl. Upon arrival was informed of fire 46th fl public hallway near freight elevator. Ordered investigation and found fire therein, which had been extinguished prior to the arrival of this dept. Evacuation instituted by Port Authority personnel prior to arrival of Fire Dept. units. Report of smoke detector operational of the 103rd fl. Fire located between freight elevators 49 & 17.

E.6- Rolled up lengths to the 44th fl. Connected to standpipe therein and stretched to fire floor(46th) Washed down fire area for overhauling purposes.

E.7- Assisted in stretch, then ordered to search, examination of 53rd to 58th fls. Also Checked 45th fl. report of smoke condition.

E.24- Reported to secondary command post(55th fl). Then ordered to check smoke condition report 53rd fl. Then assisted in search, & examination of 53rd to 56th fls. Also checked out smoke detector 103rd fl.

*James J. McKenna* 1 *Matthew J. Farrell* 1  
NAME DIV. NAME DIV.

James J. McKenna 2208 Matthew J. Farrell  
TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME TIME OF ARRIVAL

ADMINISTRATIVE COMPANY



BF-24A (6/76)

**REPORT — Additional Data****Structural Fire, Transportation Fire, Non-Structural Fire or Emergency**

FOR FIRE RECORDS USE ONLY		TYPE REPORT		DATE AND TIME ALARM RECEIVED				ALARM	
		MONTH	DAY	YEAR	CO. NO.	HOUR	MINUTE	BOROUGH	BOX NUMBER
		1	06	24	77	2	2205	1	0070

10	18	22	28	36	42
TYPE NO. SECT. FIS.					
42	48	54	60	66	72

**OPERATIONS**

- L.1- Initially to the fire floor (46th) operated for overhauling search & examination, ventilation of same. Then search, examination & ventilation of the 107th to 46th fl. Stairway "B".
- L.8- Initially to secondary command post. (West St). Then ordered to check 78th to 60th fls search & examination. Also assisted in overhauling fire floor (46th)
- L.15- Special called to report to West St. Then through lobby to secondary command post. Enroute found (2) civilian cleaning personnel (female) had been removed to lobby suffering smoke inhalation. Performed first Aid on injured civilians. Then relieved by Res. 1 with resuscitator. Then ~~was~~ ordered to search 47th to 52nd fls as (2) injured civilians reported to have worked on the 48th & 50th fls.
- Res.1- Relieved L.15 and administered first aid (Inhalation) to injured civilians. Then ordered Office & remainder of members went to investigate report of smoke & people on the 55th fl. Then ~~came~~ down to 46th fl. Search, examination of floors enroute.
- Batt.1- Initially in command, then ordered to ~~establish command~~ set up additional command in lobby, as first aid station. Two public ambulances standing by with (4) resuscitators. Directed search operations of E.7, L.15, Res. 1. Ordered smoke purge 45th to 107 when fire was out.
- Batt.2- Ordered to supervise units on the fire floor & report conditions therein. Supervised in part operation of E.6, L.1
- Batt.32 - Ordered to supervise operations of units above fire floor.
- Div.1- In overhauled command of operations at command post B.1 level.

by James J. McKenna B.N. \_\_\_\_\_ D.C. \_\_\_\_\_ PAGE 1 OF 3

James J. McKenna 2208 Matthew J. Farrell

TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME TIME OF ARRIVAL

BF-24A (6/76)

## REPORT — Additional Data

### Structural Fire, Transportation Fire, Non-Structural Fire or Emergency

FOR FIRE RECORDS USE ONLY		DATE AND TIME ALARM RECEIVED				ALARM	
TYPE REPORT	MONTH	DAY	YEAR	CO NO.	HOUR	MINUTE	BOROUGH
1	06	24	77	2	22	05	1
							0070

TYPE	NO.	SECT.	FIS.

### OPERATIONS

Act Asst Chief Munk on the scene to supervised overall operations.

Remarks: L. 1 checked all elevator cars before leaving scene.  
 Ordered 10-41 Code 1 due to report from Port Authority police of labor trouble with Maintenance personnel (Temco)  
 Dept. Photographer ordered to scene to take pictures of fire area.

Alarm was turned in by Mr. Nick Cappola, Temco Maintenance  
 (2) Beekman Ambulances on the scene under Mr. B. John

#### Injured Civilians:

Name	Address	Injury	Treated
[REDACTED]	[REDACTED]	Smoke inhal.	Beekman & Released
[REDACTED]	[REDACTED]	Smoke inhal.	" " "
[REDACTED]	[REDACTED]	Smoke Inhal.	Received O2 not removed to Hos

Note: All of the above are employees of the Temco Co.

Sgt. Steve Fox Bd# 264	Burn to Fingers Rt Hand.
Ptl A. Hallicker	Burn to Rt Wrist
Ptl Meyers	Smoke inhal
Ptl. Carcaic	Smoke Inhal.

Note: Police members of Port Authority Police Dept. All injured treated at Beekman Hospital & released.

James J. McKenna D.C. \_\_\_\_\_ PAGE \_\_\_\_\_  
 TYPE FULL NAME 2208 Matthew J. Farrell  
 TIME OF ARRIVAL TIME OF ARRIVAL

ADMINISTRATIVE COMPANY



BF-24 (6/22-50M-121973(75)

## REPORT - 0113

FOR FIRE RECORDS USE ONLY				DATE AND TIME ALARM RECEIVED				DURATION OF INCIDENT		HOW REPORTED		ALARM		INC.					
TYPE REPORT				MONTH	DAY	YEAR	CD NO.	HOUR	MINUTE	HOURS	MINUTES	INITIAL ALARM	HIGHER ALARM	BOROUGH	ALARM				
1	07	13	77	1	15	30	00	30	1	1	0	1	0070	5	006	0113	0122	01	10

  

AIDED AND CASUALTIES				RESP.		EXTINGUISHMENT		INVESTIGATION		STRUCTURE		AREA FIRE ORIGIN						
CIVILIANS																		
EVAQUATED	FIRST AID	INJURED	DECEASED	UNIFORMED	HYDRO	ENG. SO.	MAINE	CODE	NO. SPARKS	HAZ. CHAIN	STATIONARY	INVESTIG.	CAUSE					
00	00	00	00	00	30	2	5	00	01	0	1	15	1	0	09	57	50	00

ADDRESS: # 1 World Trade Center Tower B  
 NUMBER: 110 STREET: 600 x 600 BOROUGH: AREA:  
 BUILDING: 110 STORIES: 110  
 (Second Card)

Port Authority  
 NAME OF OCCUPANT: Mr. Sarnelle FSD.  
 LEFT IN CHARGE: ROOM/APT.

COMPANY				OPERATIONS			
TYPE	NO.	SECT.	PTS.	TYPE	NO.	SECT.	PTS.
5	007	0	05	7	001	0	05

On arrival found fire to be in airconditioning room on the 9th fl  
 E. 7 Stretched Line, extinguished fire.  
 L. 1 Made necessary search and overhaul.

Signature: Theodore A. Campbell  
 NAME: Theodore A. Campbell  
 BN: 1535  
 DIV: 1  
 TIME OF ARRIVAL: 1535  
 TYPE FULL NAME: Theodore A. Campbell  
 TIME OF ARRIVAL: 1535

ADMINISTRATIVE COMPANY

On arrival found fire in accumulated rubbish in elevator lobby of 35th floor which had caused scorching of the walls and ceiling. Port Authority personnel had extinguished fire with hand extinguishers and standpipe hose. Fire termed suspicious by P.A.P.D.

L 1 Searched, examined for extension and overhauled.

ADMINISTRATIVE COMPANY

FOR FIRE RECORDS USE ONLY										DATE AND TIME ALARM RECEIVED				DURATION OF INCIDENT		HOW REPORTED		INITIAL ALARM		HIGHEST ALARM		LOCATION		REPORT				
TYPE REPORT										MONTH	DAY	YEAR	CD. NO.	HOUR	MINUTE	HOURS	MINUTES	INITIAL ALARM	HIGHEST ALARM	BOROUGH	BOX NUMBER	ADMIN. COMPANY	BLOCK NUMBER	REPORT NUMBER	FILING BATTALION	BADE NUMBER		
										1	11	03	77	1	1845	00	30	4	1	0	1	8085	5	006	0113	0015	04	480

  

AIDED AND CASUALTIES					RESP.	EXTINGUISHMENT	INVESTIGATION	STRUCTURE	AREA FIRE ORIGIN													
CIVILIANS																						
EVAQUATED	FIRST AID	INJURED	KILLED	UNIFORMED INJURED	ENG. SQ. #	LADDER CODE	NO. SPRINK. LINES OPEN	STANDPIPE LINES USED	FUREST LOST	CAUSE	FIRE MARSHAL	CONSTRUCT	USE	STATUS	STATUS TO BEG. TO RISE	STATUS TO RISE	FLOOR CODE	ROOM OR AREA CODE	OCCUPANCY	MANNE OF EXTENSION		
00	00	00	00	00	03	2	5	00	01	1	62			1	15	1	1	0	58	21	50	00

  

ADDRESS # 1 World Trade Center Tower 1 Man. Closet N.A.  
 NUMBER STREET BOROUGH  
 BUILDING 110 300 X 300  
 (Second Card) STORIES AREA  
 NAME OF OCCUPANT Sgt. Fox P.A.  
 LEFT IN CHARGE

  

TYPE NO.	SECT.	PTS.	164	7071	7710	1622	2828	35
5	006	0	10	7	001	0	05	

COMPANIES

OPERATIONS

On arrival found cause of alarm to be fire in janatorial closet in volving rags and rubbish. Batt 4 requested a 10-41 Codel Fire caused searing of paint on walls and ceiling.

E-6 Stretched rolled up lengths and hooked up to standpipe outlet and extinguished fire.

L-1 Made examination of walls and ceiling and ventilated as necessary.

S.C. Stanley Hirschfield 4th D.C.  
 DIV. 1 OF 1  
 TYPE FULL NAME Stanley Hirschfield TIME OF ARRIVAL 1850 TYPE FULL NAME  TIME OF ARRIVAL

ADMINISTRATIVE COMPANY

AIDED AND CASUALTIES										RESP.	EXTINGUISH- MENT	INVEST- IGATION	STRUCTURE	AREA FIRE ORIGIN							
CIVILIANS					ENG. SQ. M-TIME	LADDERS CODE	NO SPRINK- LERS OPEN	STANPIPE LINES USED	BURNING CONTROLLER						CAUSE	FIRE MARSHAL	CONSTRUCT	USE	STATUS	DAMAGE DO DO DO DO DO DO CONTACT	FLOOR CODE
EVACUATED	FIRST AID	INJURED	KILLED	UNIFORMED INJURED																	
00	00	00	00	00	03	2	5	00	01	62			1	15	1	1	0	9	15	50	00

Port of N.Y. Authority 107

Sgt. Wescott PONYA Police  
LEFT IN CHARGE

10	16	22	28	29	35	36	42	43	48	50	56	
5	006	01	10	7	001	0	10					
TYPE NO. SECT. PTS.				144	70			71	77			10
									16			22
									28			29

Responded to manual ala rm box 8089-

Upon arrival was informed of fire 107th fl. Ordered investigation and found fire in rubbish & maint. materials therein. Batt. 1 ordered additional Battalion Chief to respond on report of definite fire. Batt.4 responded.

R.6- Rolled up lengths to the fire floor extinguished remaining fire

L.1- Search, examination of fire floor & floor above. Opened walls for examination. Overhauled burned materials.

**En.4- Ordered to supervise operations on the fire floor.**

Div. 1- Responded to scene, and assumed command.

Note: Batt.1 transmitted 10-41 Code 2 & requested F.M. to respond.

B.C.	BN.	D.C.	DIV.	PAGE
Jmaes J. McKenna	2020	Matthew J. Farrell		
TYPE FULL NAME	TIME OF ARRIVAL	TYPE FULL NAME	TIME OF ARRIVAL	

G-84



FOR FIRE RECORDS USE ONLY		TYPE REPORT		DATE AND TIME ALARM RECEIVED						DURATION OF INCIDENT		HOW REPORTED		LOCATION		REPORT		
		MONTH	DAY	YEAR	CD. NO.	HOUR	MINUTE	HOURS	MINUTES	INITIAL ALARM	HIGHEST ALARM	BOROUGH	BOX NUMBER	ADMM. COMPANY	BLOCK NUMBER	REPORT NUMBER	FILE NO.	BADGE NUMBER
	1	01	18	79	1	2353	00	45	4	1	0	1	8027	5	006	0113	0164	01 352

  

AIDED AND CASUALTIES				RESP.	EXTINGUISH. MENT	INVEST. IGATION	STRUCTURE	AREA FIRE ORIGIN
CIVILIANS								
EVAQUATED	FIRST AID	INJURED	KILLED	UNIFORMED INJURED	ENG. SQ. LADDERS	NO SPRINK. LEE OPEN	STANDPIPE LINES USED	CAUSE
00	00	00	00	00	03	2	5	00

  

ADDRESS		STREET		BOROUGH	
2 World Trade Center		Man.		N.Y. State	

  

BUILDING		STORIES		AREA	
110		150x150		Bon Bailly P.A. Police	

  

COMPANIES		TYPE NO. SECT. PTS.		70/71		77/10		16/22		29/29	
5	006 0	10	5-007-0	7	001 0	10	7	008 0	10		

  

**OPERATIONS**

Upon arrival was told of fire on the 6th floor, operations as follows.

Ladder 1 made necessary investigation, located the fire, vented, overhauled and searched.

Ladder 8 searched and vented floor above, overhauled.

Engine 6 stretched a line from standpipe and extinguished the fire.

Engine 6 washed down.

Batt. 2 on the scene.

Div. 1 on the scene.

*Joseph A. Hingerton* D.C. 2355 DIV. 1 of 1

Joseph A. Hingerton 2355

TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME TIME OF ARRIVAL

ADMINISTRATIVE COMPANY

G-86

REPORT - ADDITIONAL DATA

STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

DATE AND TIME ALARM RECEIVED				BOX LOCATION		IGNITION				STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION																			
MONTH	DAY	YEAR	HOUR	MINUTE	SECOND	BUILDING NO.	FLOOR	TYPE	MATERIAL	TYPE	STATUS	ROOM	FLOOR	ROOM	ROOM																		
04	19	2001	14	06	11	18086	01	3	98	30	40	50	1	15	1	1																	
<table border="1"> <thead> <tr> <th colspan="2">NUMBER</th> <th colspan="2">STREET NAME</th> <th colspan="2">IF MOBILE PROPERTY</th> </tr> <tr> <th>VR</th> <th>MAKE</th> <th>MODEL</th> <th>78 SERIAL NO.</th> <th>LICENSE</th> <th>STATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> </tbody> </table>																NUMBER		STREET NAME		IF MOBILE PROPERTY		VR	MAKE	MODEL	78 SERIAL NO.	LICENSE	STATE	1	1	1	1	1	1
NUMBER		STREET NAME		IF MOBILE PROPERTY																													
VR	MAKE	MODEL	78 SERIAL NO.	LICENSE	STATE																												
1	1	1	1	1	1																												
<table border="1"> <thead> <tr> <th colspan="2">UNIT</th> <th colspan="2">PTS.</th> <th colspan="2">OPS.</th> </tr> <tr> <th>199</th> <th>195</th> <th>201</th> <th>207</th> <th>213</th> <th>219</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>006</td> <td>20</td> <td>5</td> <td>007</td> <td>25</td> </tr> </tbody> </table>																UNIT		PTS.		OPS.		199	195	201	207	213	219	5	006	20	5	007	25
UNIT		PTS.		OPS.																													
199	195	201	207	213	219																												
5	006	20	5	007	25																												

## OPERATIONS

from the 107th. floor restaurant. There is an open access stair from 106, opening into 107th. floor restaurant dining area.

At this point fire had not been located. On basis of above, Batt. 1 ordered approx. 300 persons evacuated from the "Windows on the world restaurant" on the 107th. floor via stairway "C" which was clear of smoke. Later stairway "B" was clear of smoke and was made available for evacuation.

On Arrival of D.C. Rossi, Div. 1 Batt. 1 advised Him of above and recommended a 2nd. alarm be transmitted, as fire had not been located. Restaurant was being evacuated and all units were now assigned to work. D.C. Rossi transmitted a 2nd. alarm and requested 2 additional Batt. ch. Operations of Cos. are as follows:

Eng. 6 Masks, rolledups, responded to fire floor via freight elevator to 104 fl. via stairway to 106 fl. Met Lad. 1 who had located fire on 106 fl. Hooked 4 lengths of 2 1/2 hose to standpipe, operated on fire.

B.C. James J. McKenna BN. 1409 D.C. 1409 DIV. 1 OF 2

James J. McKenna 1409

TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME TIME OF ARRIVAL

(1) White Copy: Fire Records (2) Canary Copy: Battalion (3) Pink Copy: Administrative Company (4) Goldenrod Copy: Reference



TYPE REPORT		DATE AND TIME ALARM RECEIVED				BOX LOCATION		IGNITION				STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION		
MONTH	DAY	YEAR	HOUR	MINUTE	SECOND	BOX NO.	BUILDING NO.	FLOOR	EQUIP. INVOLVED	HEAT TYPE	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	USE	STATUS	DAMAGE	FLOOR CODE	
6	04	19	20	14	06	11	50	26	01	13	38	30	40	50	1	15	1	1
<div> <div> <div>NUMBER</div> <div>1</div> </div> <div> <div>STREET NAME</div> <div>WORLD TRADE</div> </div> <div> <div>IF MOBILE PROPERTY</div> <div>CNTR</div> </div> </div>																		
<div> <div> <div>VEH. MAKE</div> <div>51</div> </div> <div> <div>MODEL</div> <div>54</div> </div> <div> <div>79 SERIAL NO.</div> <div>133</div> </div> <div> <div>LICENSE</div> <div>38</div> </div> <div> <div>STATE</div> <div>43</div> </div> </div>																		
<div> <div> <div>BO</div> <div>141</div> </div> <div> <div>147</div> </div> <div> <div>150</div> </div> <div> <div>158</div> </div> <div> <div>165</div> </div> <div> <div>171</div> </div> <div> <div>177</div> </div> <div> <div>183</div> </div> <div> <div>189</div> </div> </div>																		
<div> <div> <div>UNIT</div> <div>189</div> </div> <div> <div>PTS</div> <div>195</div> </div> <div> <div>201</div> </div> <div> <div>207</div> </div> <div> <div>213</div> </div> <div> <div>218</div> </div> <div> <div>224</div> </div> <div> <div>230</div> </div> <div> <div>236</div> </div> </div>																		

**OPERATIONS**

Operations of Cos. continued:

Lad. 1 to 106 floor to investigate activated smoke alarm, searched and located fire, checked floor above for extension, and overhauled.

Eng. 7 Responded to 109 fl. to investigate a sprinkler alarm, found no sprinkler flow, and light smoke condition.

Lad. 8 Responded to 109 fl. with Eng. 7.

Eng. 7, and Lad. 8 then reported to 108, 107, and 106 fls. made search and assisted in evacuation of Restaurant.

Eng. 10, Responded to 106 fl. to assist and relieve Eng. 6 on the line.

2nd. alarm units reported to comand post, stood fast then ordered to take up by DAC Glasse.

Rescue 1 responded on 2nd. alarm, reported to 107 fl. assisted in evacuation of restaurant, then to 106 fl. to assist Lad. 1, then ordered to take up.

B.C. James J. McKenna B.N. 1409 P.C. 1

James J. McKenna 1409

TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME TIME OF ARRIVAL

(1) White Copy: Fire Records (2) Canary Copy: Battalion (3) Pink Copy: Administrative Company (4) Goldenrod Copy: Referral



REPORT - ADDITIONAL DATA

STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT		DATE AND TIME ALARM RECEIVED				BOX LOCATION		IGNITION		STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION		
MONTH	DAY	YEAR	HOUR	MINUTE	SECOND	BOX NO.	SECTION NO.	INITIAL STAGE	CAUSE UNKNOWN	MATERIAL TYPE	MATERIAL FORM	STATUS	BLDG. DAMAGE	FLOOR CODE	RELATIVE CORR.	
6	04	00	30	14	06	11	8085	01	3	28	30	40	50	1	13	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NUMBER 1001 HYDRA 51 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

STREET NAME WORLD TRADE CENTER

IF MOBILE PROPERTY

YR. MAKE 51 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

MODEL 78 SERIAL NO. LICENSE STATE

UNIT PTS. 195 201 207 213 219 225 231 237 243 249 255 261 267 273 279 285 291 297 303 309 315 321 327 333 339 345 351 357 363 369 375 381 387 393 399 405 411 417 423 429 435 441 447 453 459 465 471 477 483 489 495 501 507 513 519 525 531 537 543 549 555 561 567 573 579 585 591 597 603 609 615 621 627 633 639 645 651 657 663 669 675 681 687 693 699 705 711 717 723 729 735 741 747 753 759 765 771 777 783 789 795 801 807 813 819 825 831 837 843 849 855 861 867 873 879 885 891 897 903 909 915 921 927 933 939 945 951 957 963 969 975 981 987 993 999

OPERATIONS

Operations of Cos. continued:

Chief Officers on scene:

DAC Glasse, City wide command Chief.

D.C. Rossi Dept. chief 1st. Div.

B.C. James J. McKenna Chief 1st. Batt.

B.C. Louis Pike Chief 2nd. Batt.

B.C. John T. Carroll Chief 4th. Batt.

B.C. Edward J. Miller Chief 6th. Batt.

Field Comm. unit, Lieut. Soranno on scene.

Fire Patrol #2 on scene.

W.F.C. fire safety director Mr. John Barrett on scene.

P.A. Patrolmen Cemonuk, and Oorbeek on Duty at Command Post.

Building Mechanical System failures noted:

#1 Sprinkler alarm received for unsprinklerd 109 Fl.

#2 Return air duct smoke detectors did not shut fans down.

#3 Heat fused link shut damper in purge system.

#4 107 floor standpipe phone unreliable due to feed back from radios.

B.C. James J. McKenna 1409 D.C. DIV.

James J. McKenna 1409

TYPE FULL NAME TIME OF ARRIVAL TYPE FULL NAME TIME OF ARRIVAL

(1) White Copy: Fire Records (2) Canary Copy: Battalion (3) Pink Copy: Administrative Company (4) Goldenrod Copy: Referral



<b>REPORT - ADDITIONAL DATA</b>											
<b>STRUCTURAL FIRE TRANSPORTATION FIRE NON-STRUCTURAL FIRE OR EMERGENCY</b>											
TYPED REPORT DATE AND TIME ALARM RECEIVED	BOX LOCATION	IGNITION	STRUCTURE	AREA OF ORIGIN	FIRE EXTENSION						
TYPE NO.	MAY DAY	HOURS	MINUTES	BUILDING NO.	STREET NAME	ROOM NO.	FLOOR	WALLS	CORRIDORS	ELEVATOR SHAFTS	BASEMENTS
6-1-19-40-1406-1-BOSSE CT-1-9B-3D-4C-5G-1-1-1-1-06-57-59-00-01											
NUMBER						IF MOBILE PROPERTY					
YEAR MAKE MODEL SERIAL NO. LICENSE STATE											
UNIT NUMBER											
OPERATIONS											
High Rise Report prepared and forwarded to Div. of Fire Prevention. Follow up on Mechanical and Electrical malfunctions being made with Port Authority. See copy of High Rise report for details.											

PAGE 5 OF 5

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S.C. James J. McKenna D.C. \_\_\_\_\_  
**James J. McKenna** **1409 BN**

TIME FULL NAME TYPE FULL NAME  
\_\_\_\_\_

(1) White Copy: Fire Records (2) Canary Copy: Battalion (3) Pink Copy: Administrative Company (4) Goldenrod Copy: Reference





[illegible]



## REPORT — STRUCTURAL FIRE

BF-24 (1/80)

INCIDENT LOCATION		DATE AND TIME		ALARM RECEIVED		DURATION		INITIAL ALARM		BOX LOCATION		REPORT		COS. RESP.						
COMMUNITY BOARD	COMPANY	MONTH	DAY	YEAR	HOUR	MINUTE	MINUTES	MINUTES	MINUTES	MINUTES	BOX NUMBER	REPORT NUMBER	BATTALION	ENGINE	RESP.					
1	01	5	006	0113	04	47	81	0918	01	30	7	1	2	1	8084	0145	01	196	09	3

  

AIDED AND CASUALTIES		EXTINGUISHMENT		IGNITION		STRUCTURE		AREA FIRE ORIGIN		FIRE EXTENSION		SPECIAL USE	
EVACUATED	FIRST AID	INJURED	KILLED	UNINFORMED	INFORMED	CODE	SPRINKLED	STAMPED	STAMPED	STAMPED	STAMPED	STAMPED	STAMPED
99	00	00	00	00	00	00	00	00	00	00	00	00	00

  

STREET NAME		TYPE		BUILDING		AREA		LEFT IN CHARGE	
NUMBER	STREET NAME	TYPE	STREET NAME	BUILDING	AREA	LEFT IN CHARGE	AREA	LEFT IN CHARGE	AREA
1	World Trade Center	126	130	99	300x300	Bill Barnelli	P.S.D.		

ADMINISTRATIVE COMPANY

UNIT	PTS.	ITEM
5	010	10
5	006	10
5	007	10
7	001	10
7	015	10

## OPERATIONS

Upon arrival at box 8084, was informed by PA police of fire in MER room on the 7th floor with smoke condition on 7 thru 11 floors, transmitted 2nd alarm.

Eng. 10 Masks, rolled up, responded to 7th floor, hooked up to standpipe, extinguished fire in air condition unit in MER room.

Eng. 6 Masks, rolled up, responded to 7th floor, stood fast.

Eng. 7 Masks, rolled up, responded to 7th floor, stood fast.

Lad. 1 Masks, responded to 7th floor, V.S.O. air condition unit, checked for extension in A/C duct.

Lad. 15 Masks, Vented and searched floors 8 thru 13, checked for extension in A/C duct.

Lad. 6 Masks, under direction of BO Moffet, Rm. 4 searched floors 13 thru 18.

B.C.	BN.	D.C.	PAGE	DIV.	TIME OF ARRIVAL	TYPE FULL NAME	TIME OF ARRIVAL
			1	2			

## REPORT — Additional Data

## Structural Fire, Transportation Fire, Non-Structural Fire or Emergency

FOR FIRE RECORDS USE ONLY		DATE AND TIME ALARM RECEIVED				ALARM	
TYPE REPORT	MONTH	DAY	YEAR	CD. NO.	HOUR	MINUTE	BOX NUMBER
1	04	17	81	2	09	18	8084

COMPANY	TYPE	NO.	SECT.	PIS.
1	1	1	1	1
2	1	1	1	1
3	1	1	1	1
4	1	1	1	1
5	1	1	1	1
6	1	1	1	1
7	1	1	1	1
8	1	1	1	1
9	1	1	1	1
10	1	1	1	1
11	1	1	1	1
12	1	1	1	1
13	1	1	1	1
14	1	1	1	1
15	1	1	1	1
16	1	1	1	1
17	1	1	1	1
18	1	1	1	1
19	1	1	1	1
20	1	1	1	1
21	1	1	1	1
22	1	1	1	1
23	1	1	1	1
24	1	1	1	1
25	1	1	1	1
26	1	1	1	1
27	1	1	1	1
28	1	1	1	1
29	1	1	1	1
30	1	1	1	1
31	1	1	1	1
32	1	1	1	1
33	1	1	1	1
34	1	1	1	1
35	1	1	1	1
36	1	1	1	1
37	1	1	1	1
38	1	1	1	1
39	1	1	1	1
40	1	1	1	1
41	1	1	1	1
42	1	1	1	1
43	1	1	1	1
44	1	1	1	1
45	1	1	1	1
46	1	1	1	1
47	1	1	1	1
48	1	1	1	1
49	1	1	1	1
50	1	1	1	1
51	1	1	1	1
52	1	1	1	1
53	1	1	1	1
54	1	1	1	1
55	1	1	1	1
56	1	1	1	1
57	1	1	1	1
58	1	1	1	1
59	1	1	1	1
60	1	1	1	1
61	1	1	1	1
62	1	1	1	1
63	1	1	1	1
64	1	1	1	1
65	1	1	1	1
66	1	1	1	1
67	1	1	1	1
68	1	1	1	1
69	1	1	1	1
70	1	1	1	1
71	1	1	1	1
72	1	1	1	1
73	1	1	1	1
74	1	1	1	1
75	1	1	1	1
76	1	1	1	1
77	1	1	1	1
78	1	1	1	1
79	1	1	1	1
80	1	1	1	1
81	1	1	1	1
82	1	1	1	1
83	1	1	1	1
84	1	1	1	1
85	1	1	1	1
86	1	1	1	1
87	1	1	1	1
88	1	1	1	1
89	1	1	1	1
90	1	1	1	1
91	1	1	1	1
92	1	1	1	1
93	1	1	1	1
94	1	1	1	1
95	1	1	1	1
96	1	1	1	1
97	1	1	1	1
98	1	1	1	1
99	1	1	1	1
100	1	1	1	1

OPERATIONS  
continued

Rescue 1 Masks, searched floors 18 thru 23.

## 2nd. alarm units:

Engs. 24, 15, 55, 9, 241, and Marine 1 were ordered to stand fast at there assigned locations.

Div. 1, D.C. DeCaprio responded and supervised operations  
Chiefs Gormley, Bishop, and Farrell also on scene.

P.A. personell reported evacuation of aprox, 1,500 persons from floors 9 thru 23.

F.C. unit on scene

F.P. 2 on scene.

## TIMES

Box	0918
2-2	0928
U/C	0959

S.C. <u>Peter Costello</u>	B.M. <u>1</u>	D.C. <u>Angelo DeCaprio</u>	DIV. <u>2</u>	PAGE <u>2</u> OF <u>2</u>
Peter Costello	0920	Angelo DeCaprio		
TYPE FULL NAME	TIME OF ARRIVAL	TYPE FULL NAME	TIME OF ARRIVAL	

ADMINISTRATIVE COMPANY

ADMINISTRATIVE COMPANY

## REPORT — STRUCTURAL FIRE

BF 24 (1/80)

INCIDENT LOCATION		DATE AND TIME		ALARM RECEIVED		INCIDENT DURATION		HOW REPORTED		BOX LOCATION		REPORT		COS. RESP.						
TYPE REPORT	COMMUNITY BOARD	ADMIN. COMPANY	BLOCK NUMBER	MONTH	DAY	YEAR	HOUR	MINUTE	MINUTES	INITIAL ALARM	HIGHEST ALARM	BOX NUMBER	REPORT NUMBER	REPORTING BATTALION	ENGINE SQUAD NUMBER					
1	01	5	010	11	10	82	20	58	00	25	7	1	0	1	8087	0086	01	150	03	2

  

AIDED AND CASUALTIES		EXTINGUISHMENT		IGNITION		STRUCTURE		AREA FIRE ORIGIN		FIRE EXTENSION		SPECIAL USE													
EVAQUATED	FIRST AID	INJURED	KILLED	UNINJURED	CODE	SPRINKLER	STANDARD	STAGE	EQUIP INVOLVED	HEAT FORM	MATERIAL TYPE	FACTOR	USE												
00	00	00	00	5	00	01	3	98	40	60	75	31	1	15	1	0	99	14	47	00	00	0	0	0	0

  

STREET NAME		TYPE		BUILDING		AREA	
NUMBER	STREET NAME	TYPE	STREET NAME	BUILDING	AREA	200 X 200	AREA
2	World Trade Center	1	130	99	200 X 200		

  

NAME OF OCCUPANT		ROOM, APT. NO.		EQUIPMENT INVOLVED IN IGNITION	
NAME	ROOM, APT. NO.	YR	MAKE	MODEL	POWER
Mr. Marchino Fire Safety director					

## OPERATIONS

Responded to smoke condition at MAX B-2 level. Building personnel reported heavy smoke condition. found fire in open shaft.

Engine 10- stretched line from standpipe, and extinguished fire.  
Ladder 1- searched , vented, checked for extension, overhauled.

B.C.		1st		D.C.		PAGE	
NAME	BN	TIME OF ARRIVAL	TYPE FULL NAME	TIME OF ARRIVAL	DIV	PAGE	OF
Joseph L. Barracato	20:59						

ADMINISTRATIVE COMPANY





# REPORT – STRUCTURAL FIRE

[illegible]

## OPERATIONS

Upon arrival at box was informed of fire in service elevator room on the 15th floor.  
Engine 10 extinguished fire.  
Ladder 10 checked for extension and overhauled.  
One sprinkler head was released.

S.C. Kenneth P. Markgraf D.C. 1 DIV. 1061 PAGE 1  
 B.N. 1628  
 TYPE FULL NAME Kenneth P. Markgraf TYPE FULL NAME   
 TIME OF ARRIVAL  TIME OF ARRIVAL

# REPORT – STRUCTURAL FIRE

BF-24 (1/80)-175M-608551 (83)

TYPE REPORT				DATE AND TIME				INCIDENT				BOX				REPORT				COS.																																																			
INCIDENT LOCATION				ALARM RECEIVED				DURATION				HIGHEST ALARM				LOCATION				RESP.																																																			
ADMIN				YEAR				HOURS				MINUTES				BOX				FILING				LADDER																																															
COMPANY				DAY				MINUTE				BOROUGH				NUMBER				BATTALION				MARK																																															
BRAND				MONTH				HOUR				HOW REPORTED				REPORT				BADGE				NAME																																															
NUMBER				DAY				MINUTE				INITIAL ALARM				NUMBER				NUMBER				NUMBER																																															
1				01				5				01				113				12-28-84				14:35				00:25				6				1				1				1				0807				0269				01				150				01				1			

  

AIDED AND CASUALTIES				EXTINGUISHMENT				IGNITION				STRUCTURE				AREA FIRE ORIGIN				FIRE EXTENSION				SPECIAL USE							
CIVILIANS				MENT				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
EVAQUATED				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
FIRST AID				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
INJURED				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
KILLED				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
UNINJURED				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
CODE				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
SPRINKLER				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
NO OPEN				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
STATUS				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
BLOG DAMAGE				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
FLOOR CODE				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
RMA AREA CODE				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
OCCUPANCY				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
MANNER OF				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
NO BLDG				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
SMOKE DETECTORS				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
WITHIN BLDG				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
OCCUPANCY				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
NO BLDG				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
SMOKE DETECTORS				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
WITHIN BLDG				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
OCCUPANCY				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
NO BLDG				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
SMOKE DETECTORS				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
WITHIN BLDG				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
OCCUPANCY				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
NO BLDG				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
SMOKE DETECTORS				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
WITHIN BLDG				STANDARDS				EQUIP INVOLVED				HEAT FORM				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE				MATERIAL TYPE			
OCCUPANCY				STANDARDS				EQUIP INVOLVED																							

## OPERATIONS

Upon arrival found fire in the freight elevator lobby, 23rd floor. Units operated as follows:

- Engine 10 stretched line from the standpipe and operated line.
- Ladder 10 V.B.S. performed necessary overhaul, used can on the fire.

CONF. 10-41-CODE, 1 Transmitted.

21-11

[illegible]

OPERATIONS

Upon arrival, advised by FSD that there was a dumpster fire in the hall on the 38th floor, extinguished prior to FD arrival. Once informed that all fire had been extinguished permission was granted to building personnel to clear floor area of smoke by use of HVAC system. A 10-41-1 was transmitted for this box. Operations as follows: B4 set up lobby command post, monitored hard wire communications on fire floor.

E 10 donned masks, stretched line from stairwells and completed operations on fire floor.

L 10 " " , made search of 38th floor, overhauled as needed.

L 15 " " , made search of 39th, 40th, 41st floors, all found satisfactory.

All other 10-76 units stood fast at staging area.

10-41-1 transmitted.



TYPE REPORT				INCIDENT LOCATION				DATE AND TIME ALARM RECEIVED				INCIDENT DURATION				BOX LOCATION				REPORT				COS. RESP.			
APARTMENT	BLOCK NUMBER	FLAT	STREET	YEAR	MONTH	DAY	MINUTES	HOURS	MINUTES	SECONDS	MINUTES	SECONDS	MINUTES	SECONDS	MINUTES	SECONDS	MINUTES	SECONDS	MINUTES	SECONDS	MINUTES	SECONDS					
1	84	1	1	1972	00	55	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
<p> <b>NAME:</b> Irwin Small F.S.D.  <b>ADDRESS:</b> 200 X200  <b>APARTMENT:</b> 99  <b>STREET:</b> 112  <b>BUILDING:</b> 112  <b>AREA:</b> 200 X200  <b>LEFT IN CHARGE:</b> </p>																											

Responded to EMS alarm report of smoke in building. As units were responding informed by dispatcher of numerous reports of smoke from 30 to 55th floor. After searching found cause of smoke to be coming from KKKR radio room on 55th floor. Fire was caused by welding operation resulten heat caused insulatic to ignite inside of fan room. Units operated vize.

Engine Co. 10 - Stretched line from standpipe on 5th floor and extended same to 10th floor.  
Ladder Co. 10 - Searched, overhauled, checked for extension.  
Ladder Co. 1-- Searched, checked for extension.  
Engine Co. 6 - Searched, maned command post/.

ENGINE CO.  
Rudolph E. Quetzene  
DATE OF BIRTH 10-17-31  
TIME OF ARRIVAL 17:51  
TYPE OF DAMAGE Fire  
FULL NAME  
TIME OF ARRIVAL

PAGE 1 OF 1

G-101



[illegible]



TYPE REPORT		INCIDENT LOCATION		DATE AND TIME		ALARM RECEIVED		INCIDENT DURATION		INITIAL ALARM		BOX LOCATION		REPORT NUMBER		INCIDENT NUMBER		FIRE ORIGIN		FIRE EXTENSION		DAMAGE		DETECTORS		HAZ		SPECIAL USE	
1	01	5	010	12	17	89	1313	01:00	81	17	1	8084	0104	0231	01	296	07	09	08	00	000	0							

AIDED AND CASUALTIES		EXTINGUISHMENT		IGNITION		STRUCTURE		FIRE ORIGIN		FIRE EXTENSION		DAMAGE		DETECTORS															
1	00	00	04	00	00	01	3	98	24	97	19	54	01	59	07	50	61	00	01	01	1	2	1	1	1	1	1	1	1

STREET NAME		TYPE		SUITE		DIRECTION		STREET NAME		TYPE		SUITE		DIRECTION															
1	00	00	04	00	00	01	3	98	24	97	19	54	01	59	07	50	61	00	01	01	1	2	1	1	1	1	1	1	1

STREET NAME		TYPE		SUITE		DIRECTION		STREET NAME		TYPE		SUITE		DIRECTION															
1	00	00	04	00	00	01	3	98	24	97	19	54	01	59	07	50	61	00	01	01	1	2	1	1	1	1	1	1	1

STREET NAME		TYPE		SUITE		DIRECTION		STREET NAME		TYPE		SUITE		DIRECTION															
1	00	00	04	00	00	01	3	98	24	97	19	54	01	59	07	50	61	00	01	01	1	2	1	1	1	1	1	1	1

STREET NAME		TYPE		SUITE		DIRECTION		STREET NAME		TYPE		SUITE		DIRECTION															
1	00	00	04	00	00	01	3	98	24	97	19	54	01	59	07	50	61	00	01	01	1	2	1	1	1	1	1	1	1

STREET NAME		TYPE		SUITE		DIRECTION		STREET NAME		TYPE		SUITE		DIRECTION															
1	00	00	04	00	00	01	3	98	24	97	19	54	01	59	07	50	61	00	01	01	1	2	1	1	1	1	1	1	1

STREET NAME		TYPE		SUITE		DIRECTION		STREET NAME		TYPE		SUITE		DIRECTION															
1	00	00	04	00	00	01	3	98	24	97	19	54	01	59	07	50	61	00	01	01	1	2	1	1	1	1	1	1	1

STREET NAME		TYPE		SUITE		DIRECTION		STREET NAME		TYPE		SUITE		DIRECTION															
1	00	00	04	00	00	01	3	98	24	97	19	54	01	59	07	50	61	00	01	01	1	2	1	1	1	1	1	1	1

STREET NAME		TYPE		SUITE		DIRECTION		STREET NAME		TYPE		SUITE		DIRECTION															
1	00	00	04	00	00	01	3	98	24	97	19	54	01	59	07	50	61	00	01	01	1	2	1	1	1	1	1	1	1

STREET NAME		TYPE		SUITE		DIRECTION		STREET NAME		TYPE		SUITE		DIRECTION															
1	00	00	04	00	00	01	3	98	24	97	19	54	01	59	07	50	61	00	01	01	1	2	1	1	1	1	1	1	1

STREET NAME		TYPE		SUITE		DIRECTION		STREET NAME		TYPE		SUITE		DIRECTION	
1	00	00	04	00	00	01	3	98	24	97	19	54	01		

F-24A (12/86) REPORT - ADDITIONAL DATA

STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT		DATE AND TIME ALARM RECEIVED				BOX LOCATION		INCIDENT NUMBER		BUILDING NUMBER		EQUIP. INVOLVED		MATERIAL TYPE		MATERIAL FORM		CONSTRUCTION		STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION		REMOVED REPORT	
MONTH	DAY	YEAR	HOUR	MINUTE	SECOND	BOX NUMBER	INCIDENT NUMBER	BUILDING NUMBER	EQUIP. INVOLVED	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	STRUCTURE	AREA OF ORIGIN	FIRE EXTENSION	REMOVED REPORT											
6	12	89	13	13	1	8054	0231																				

ADDRESS		STREET NAME		TYPE		CITY	
NUMBER (INCL. HYPHEN)	SUFFIX	STREET NAME	TYPE	CITY	STATE	ZIP	
7		WTC					

DAMAGE		DETECTORS	
SPR. PERFORMANCE	FLAME	SMOKE	POWER

OCCUPANT (Driver)		ROOM/APT.	
NAME	ADDRESS	ROOM/APT.	ADDRESS

IF MOBILE PROPERTY		TYPE		MAKE		MODEL		VIN		LICENSE		STATE	
TYPE	YR.	MAKE	MODEL	VIN	LICENSE	STATE							
7	008	10											

## OPERATIONS

L-8- search floors 9-40 results negative and then up.  
 B-6- established operations post on 6th floor., then went to 7th floor MER and directed operation of units. Supervised E10, E6, E4 and L15.  
 B-4- supervised operations of L15, L10, an L8 on floors above fire units conducted primary and secondary search of floors above, results negative.  
 Times 10-76 1314 - E10

Under control 1340 - Div 1

Injured Civilians - [REDACTED] - smoke inhalation  
 [REDACTED] - smoke inhalation  
 taken to St. Vincents Hospital  
 [REDACTED] - smoke inhalation  
 [REDACTED] - smoke inhalation  
 taken to Beekman

EMS Chief Cerro directed operations for EMS  
 PA operations Commander on scene Capt. Stinner.

BC Charles Callahan 1 B.N. DC Robert J. Blume 1 DIV. 2 OF 2  
 Charles Callahan 1317 Robert J. Blume 1330  
 TYPE FULL NAME TIME ARRIVED TYPE FULL NAME TIME ARRIVED



2424

[illegible][illegible]

63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																
ADDRESS										STREET NAME										DEFECTIVE DETECTOR																																																	
ROOM										NUMBER										TYPE										BRAND										SERIAL NO.																													
700CL HYPHEN										SHEET										PAPER (OPTIONAL)										AREA										WIDTH/LENGTH																													
12										WTC																				500										9.9										0.200										0.200									
115										146																				652										177										197																			

P.A. NAME OF OCCUPANT	ROOM/APPT.	YR.	MAKE	LEFT IN CHARGE	FSD NARCIA	SERIAL NUMBER	POWER
711							

EQUIPMENT INVOLVED IN IGNITION

ITEM \_\_\_\_\_

BADGE NO. \_\_\_\_\_

	PRA	ST72	ST73	ST84	F60	F60	F60								
UNIT															
PTS.															
W R I	5	006	20	5	007	13	5	004	12	5	055	02	5	005	07

Upon arrival at box 8087, 2 WTC found rubbish fire in shaft on the 94th floor. Signal 10-76 was transmitted. Units operated as follows:

- E6-Stretched line from standpipe, stood fast, then up.
- E4-Operated houseline out of stairway "B" on the 94th floor and extinguished fire in utility shaft, then up.
- E7-Assisted L10 in search of upper floors, then up.
- E24-Stood fast at Lobby Command post, then up.
- E5-Stood fast at Lobby Command post, then up.

AC	<u>Lawrence M. Byrnes</u>	01	SN	DC	<u>David M. Cortican</u>	DN	1	PAGE	1	OF	3
	<u>Lawrence M. Byrnes</u>	13-21	TIME OF ARRIVAL		<u>David M. Cortican</u>						
	TYPE FULL NAME				TYPE FULL NAME						
	WHITE—FIRE RECORD				PINK—REFERRAL						
	YELLOW—BATTALION				GOLD—ADMINISTRATIVE COMPANY						

26A (12/86) 15402000-1000-1

## REPORT — ADDITIONAL DATA

## STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT				DATE AND TIME ALARM RECEIVED				BOX LOCATION				BUILDING NO.				IGNITION				STRUCTURE				AREA OF ORIGIN				FIRE EXTENSION			
MONTH	DAY	YEAR	TIME	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX	BOX					
6	08	11	94	13	17	1	8087	0254	00																						
1				2				8				12				16				20				24				28			
A				B				C				D				E				F				G				H			
1				2				3				4				5				6				7				8			
9				10				11				12				13				14				15				16			
17				18				19				20				21				22				23				24			
25				26				27				28				29				30				31				32			
33				34				35				36				37				38				39				40			
41				42				43				44				45				46				47				48			
49				50				51				52				53				54				55				56			
57				58				59				60				61				62				63				64			
65				66				67				68				69				70				71				72			
73				74				75				76				77				78				79				80			
81				82				83				84				85				86				87				88			
89				90				91				92				93				94				95				96			
97				98				99				100				101				102				103				104			
105				106				107				108				109				110				111				112			
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177				178				179				180				181				182				183				184			
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257				258				259				260				261				262				263				264			
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753				754				755				756				757				758				759				760			
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793				794				795				796				797				798				799				800			
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889				890				891				892				893				894				895				896			
897				898				899				900				901				902				903							





E-24A (12/86) 15M2-861531-6028-N

## REPORT -- ADDITIONAL DATA

## STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT		DATE AND TIME				BOX LOCATION		INCIDENT NUMBER	BUILDING NO.	IGNITION				STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION		REVISED REPORT																																																				
MONTH	DAY	YEAR	HOURL	MINUTE	BOROUGH	BOX NUMBER	COND. ON ARRIVAL			EQUIP. INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	USE	STATUS	FLOOR CODE	OCCUPANCY	AREA CODE		MANNER	OCCUPANCY																																																		
6	08	29	99	07	47	18	084	0128	00																																																															
<table border="1"> <thead> <tr> <th colspan="2">ADDRESS</th> <th colspan="2">NUMBER (INCL. HYPHEN)</th> <th colspan="2">SUFFIX</th> <th colspan="2">PREFIX</th> <th colspan="2">DIRECT</th> <th colspan="10">STREET NAME</th> <th colspan="2">TYPE</th> <th colspan="2">SUFFIX</th> <th colspan="2">DIRECTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="10">WORLD TRADE CENTER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																					ADDRESS		NUMBER (INCL. HYPHEN)		SUFFIX		PREFIX		DIRECT		STREET NAME										TYPE		SUFFIX		DIRECTION		1	1									WORLD TRADE CENTER															
ADDRESS		NUMBER (INCL. HYPHEN)		SUFFIX		PREFIX		DIRECT		STREET NAME										TYPE		SUFFIX		DIRECTION																																																
1	1									WORLD TRADE CENTER																																																														
<table border="1"> <thead> <tr> <th colspan="2">SPR. PERFORMANCE</th> <th colspan="2">DAMAGE</th> <th colspan="2">DETECTORS</th> <th colspan="2">OCCUPANT (Driver)</th> <th colspan="2">ROOM/APT.</th> <th colspan="2">BUILDING</th> <th colspan="2">AREA</th> </tr> <tr> <th>% DAMAGED</th> <th>FLAME</th> <th>SMOKE</th> <th>WATER</th> <th>PRESSURE</th> <th>TYPE</th> <th>POWER</th> <th>PERFORMANCE</th> <th></th> <th></th> <th>STORIES</th> <th>WIDTH</th> <th>LENGTH</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																					SPR. PERFORMANCE		DAMAGE		DETECTORS		OCCUPANT (Driver)		ROOM/APT.		BUILDING		AREA		% DAMAGED	FLAME	SMOKE	WATER	PRESSURE	TYPE	POWER	PERFORMANCE			STORIES	WIDTH	LENGTH																									
SPR. PERFORMANCE		DAMAGE		DETECTORS		OCCUPANT (Driver)		ROOM/APT.		BUILDING		AREA																																																												
% DAMAGED	FLAME	SMOKE	WATER	PRESSURE	TYPE	POWER	PERFORMANCE			STORIES	WIDTH	LENGTH																																																												
<table border="1"> <thead> <tr> <th colspan="2">IF MOBILE PROPERTY</th> <th colspan="2">TYPE</th> <th colspan="2">YR.</th> <th colspan="2">MAKE</th> <th colspan="2">MODEL</th> <th colspan="2">V.I.N.</th> <th colspan="2">LICENSE</th> <th colspan="2">STATE</th> <th colspan="2">DM</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																					IF MOBILE PROPERTY		TYPE		YR.		MAKE		MODEL		V.I.N.		LICENSE		STATE		DM																																			
IF MOBILE PROPERTY		TYPE		YR.		MAKE		MODEL		V.I.N.		LICENSE		STATE		DM																																																								
<table border="1"> <thead> <tr> <th colspan="2">UNIT</th> <th colspan="2">PTS.</th> <th colspan="2">243</th> <th colspan="2">249</th> <th colspan="2">255</th> <th colspan="2">261</th> <th colspan="2">261</th> <th colspan="2">273</th> <th colspan="2">279</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																					UNIT		PTS.		243		249		255		261		261		273		279																																			
UNIT		PTS.		243		249		255		261		261		273		279																																																								

## OPERATIONS

E-6 Took hydrant, assisted E-7 in stretch.

B.C. William Oehl 01 D.C. \_\_\_\_\_ DIV. 2 OF 2  
 B.N. \_\_\_\_\_  
 William Oehl 07:51 N/A 00:00  
 TYPE FULL NAME TIME ARRIVED TYPE FULL NAME TIME ARRIVED



## Attachment G-A.7

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### Significant fires occurring in WTC 7 (1)

Significant Fire	Incident Date	Fire Location	# sprinklers activated	# standpipes activated	Cause of fire	Material Ignited
1	5/20/88	Construction shanties on floor 3	Multiple, # not listed	1	Suspicious	Shanties

BF-24 (12186)

Form 8-53-74

# REPORT - STRUCTURAL FIRE

TYPE REPORT				INCIDENT LOCATION				DATE AND TIME				ALARM RECEIVED				INCIDENT DURATION				INITIAL ALARM				BOX LOCATION				REPORT NUMBER				FIRE ORIGIN				FIRE EXTENSION				DAMAGE				DETECTORS				RECEIVED REPORT			
COMMUNITY	ROAD	ALARM	COMPANY	MONTH	DAY	YEAR	HOUR	MINUTE	SECONDS	MINUTES	HOURS	MINUTES	SECONDS	MINUTES	HOURS	MINUTES	SECONDS	MINUTES	HOURS	MINUTES	SECONDS	MINUTES	HOURS	MINUTES	SECONDS	MINUTES	HOURS	MINUTES	SECONDS	MINUTES	HOURS	MINUTES	SECONDS	MINUTES	HOURS	MINUTES	SECONDS	MINUTES	HOURS	MINUTES	SECONDS										
1	01	5	010	05	20	86	00	38	01	30	32	1	2	1	00	84	02	56	00	08	01	07	5	13	11	08	1	4	55	82	1	2	3	1	2	3	1	2	3	1	2	3									

BF-24

AIDED AND CASUALTIES		EXTIN. GUISHMENT		IGNITION		STRUCTURE		FIRE ORIGIN		FIRE EXTENSION		DAMAGE		DETECTORS	
ENHANCED	FIRST AD	INJURED	KILLED	UNHARMED	CODE	SPK	FEAT	MATERIAL TYPE	MATERIAL TON	HEAT TON	EQUIP INVOLVED	CONG ON BOARD	CONSTRUCT	USE	STATUS
1	00	00	00	00	5	1	1	2	98	97	97	21	0	1	59

STREET NAME		TYPE		STREET DIRECTION	
1	17	1	17	1	17

AREA		WIDTH/LENGTH		STORIES	
1	161	43	04-00	04-00	04-00

BOARD		NUMBER (INCL HYTHENI)		SUFFIX	
1	17	1	17	1	17

DEFECTIVE DETECTOR		BRAND		SERIAL NO.	
1	127	1	127	1	127

LEFT IN CHARGE		MODEL		SERIAL NUMBER		POWER	
1	124	1	124	1	124	1	124

NAME OF OCCUPANT		ROOM/APT.		YR.		MAKE	
1	152	1	152	1	152	1	152

EQUIPMENT INVOLVED IN IGNITION		ITEM		UNIT		PTS	
1	256	1	256	1	256	1	256

ACCOMPT.		YR.		MAKE		MODEL		SERIAL NUMBER		POWER	
1	223	1	223	1	223	1	223	1	223	1	223

TYPE FULL NAME		TYPE FULL NAME		TYPE FULL NAME	
1	0043	1	0043	1	0043

TIME OF ARRIVAL		TIME OF ARRIVAL		TIME OF ARRIVAL	
1	0043	1	0043	1	0043

PAGE		PAGE		PAGE	
1	0043	1	0043	1	0043

Upon arrival at Box 84 found fire in construction shanties on the 3rd floor. Transmitted 10:76 and 10:41-1. Units operated VIZ:

E10-Stretched line from standpipe and extinguished fire.

L10-Found sprinklers and in operation. Shut down sprinklers and made necessary search, ventilation and overhauled as required.

E7-assisted E10.

E4-Stretched line to 4th floor. Stood fast.

E6-assisted E4.

BC Rudolph S Quatrone E7-1

BN 0043

PINK-REFERRAL

GOLD-ADMINISTRATIVE COMPANY

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## REPORT — ADDITIONAL DATA

## STRUCTURAL FIRE, TRANSPORTATION FIRE, NON-STRUCTURAL FIRE OR EMERGENCY

TYPE REPORT		DATE AND TIME ALARM RECEIVED					BOX LOCATION		INCIDENT NUMBER	BUILDING NO	IGNITION				STRUCTURE		AREA OF ORIGIN		FIRE EXTENSION		REVISED REPORT
MONTH	DAY	YEAR	HOUR	MINUTE	SECOND	BOX NUMBER	INCIDENT NUMBER	CONC OR APPL			EQUIP INVOLVED	HEAT FORM	MATERIAL TYPE	MATERIAL FORM	CONSTRUCTION	USE	STATUS	FLOOR CODE	OCCUPANCY	AREA CODE	
6	05	20	88	00	35	1	0004	0005	3	9E	97	97	97	1	501	1	03	50	39	00	99
ADDRESS		BORD		NUMBER (INCL. HYPHEN)		SUFFIX PREFIX		STREET NAME		TYPE		SUFFIX DIRECTION									
17								WTC													
SPR. PERFORMANCE		DAMAGE		DETECTORS																	
1		1		6		6		1		1		2		1							
48		53		94		OCCUPANT (Driver)		113		ROOM/APT.		114		123							
IF MOBILE PROPERTY		TYPE		YR.		128		MAKE		143		MODEL		158		V.I.N.		LICENSE		STATE	
189		195		201		207		213		219		225		231							
7		010		20		7		008		20											
237		UNIT		PTS.		243		249		255		261		261		273		279			

## OPERATIONS

Operations as follows;

L8-Assisted L10 Made primary and secondary search of 5-10,11,12. Then up.  
 L1-Made search and examination of the 4th floor. Then assisted L8 in the examination of upper floors. Then up.  
 Batt 4-Supervised E10 and L10 on fire floor.  
 Batt 2-Supervised E4 and E6 and L1 on floors above fire.  
 FCU- SOP  
 MSU- SOP  
 E3- Stood fast.  
 Batt 6- Stood fast.

B.C. Rudolph S Quatrone Bn-1  
 B.N.  
Rudolph S Quatrone 0043  
 TYPE FULL NAME TIME ARRIVED

D.C. \_\_\_\_\_ DIV. \_\_\_\_\_  
 TYPE FULL NAME TIME ARRIVED  
 PAC 20

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## **Attachment G-B**

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**PACO 2002 Report: World Trade Center General Description of All Building Systems and the Capital Program. Extracted page.**

**Miscellaneous Life Safety Improvements and Sprinklerization Program**

## 12: Miscellaneous Life Safety Improvements and Sprinklerization Program

### 12.1 Description of the Program

The initial base building provided for Fire Standpipe (FSP) protection in the Towers and Plaza Buildings and no sprinkler system installation (except in the sub-grade Levels). In response to the enactment of Local Law 5 and other NYC Building Code Local Law enactments related to the fire protection of high rise office towers built after 1973 the Port Authority voluntarily retrofitted the WTC complex to comply with the new NYC Building Code Requirements supplemented by PA imposed life safety requirements unique to the WTC. These requirements provided tenants the option of achieving fire protection compliance by a compartmentalization or a sprinklerization option. The Scope of miscellaneous life safety and sprinkler system upgrades/improvements, other than certain fire alarm, concourse circulation and blast recovery improvements discussed elsewhere, included but was not limited to:

### 12.2 Scope of Fire Life Safety Improvements

#### Architectural Modifications - On all floors:

- Upgraded core wall construction to provide for a 2 hour rated fire separation from one side of a tower floor to the opposite side (Where core wall were already 2 hour rated, such as in elevator shafts, upgraded where not previously required).
- Installed a double acting set of rated HM fire doors in the core corridors where the above 2 hour rated fire separation crossed the corridor (This enabled one half of a typical tower floor to serve as a horizontal fire refuge for the other.) Doors included special magnetic hold open hardware and closures linked to smoke detectors in floor return air ducts.
- Restored all ceilings in corridors and lobbies affected by fire protection installations.
- Provided slab-to-slab 1hour fire rated walls to enable a maximum of 10,000 gross square foot compartmentalization on each side of the 2 hour rated fire separations.

#### Sprinkler System Installation

- The entire WTC complex was fully sprinklered. The Sprinkler System was installed in three basic phases. Phase 1: Sub-grade areas for the initial building construction; Phase 2: Sprinkler riser/main installation throughout 1 & 2 WTC including the sprinklerization of corridors, storage rooms, lobbies and certain tenant/PA spaces in 1976 in compliance with Local Law 5 to provide tenants with a compartmentation or sprinkler fire protection option; Phase 3: The full sprinklerization of the entire complex for all remaining places from 1983 to the 2001 (including 1993 blast recovery and ongoing up-grades/improvements and replacements).
- The Tower sprinkler systems were fed in the various zones from the gravity feed fire reserve tanks located on the 20<sup>th</sup>, 41<sup>st</sup>, 75<sup>th</sup> and 110<sup>th</sup> Floors through a 4" vertical sprinkler riser located in the Janitor Closet on each floor of each building in the WTC complex.

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